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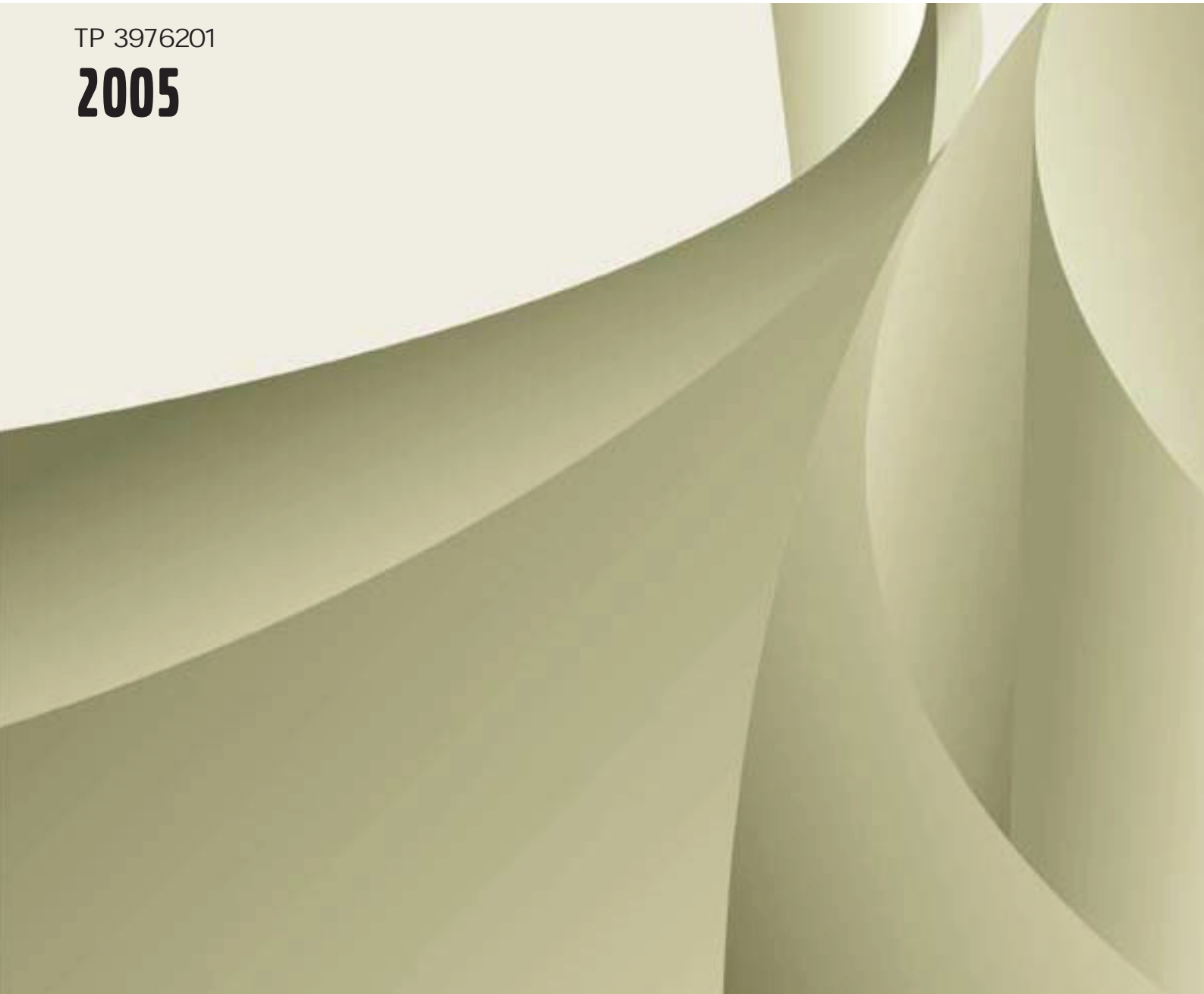

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16/126 Holder, cellular telephone handsfree
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20/16 Capacitor
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27/3 Left-hand Camera Module, LCM
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31/no. Ground connection

53/no. Junction point

54/no. Connector
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A1 Connecting rail to 15/31
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Vehicles with SRS (Airbag)/SIPS bag/ IC (Inflatable curtain)

Warning!

Vehicles equipped with SRS/SIPS bag/IC must be handled with extra care when making repairs. This avoids:
1. Personal injuries when performing repair work.
2. Damage or malfunction of the SRS/SIPS bag/IC system.

Work involving the SRS/SIPS bag/IC systems or other components in the vehicle that may affect the SRS/SIPS bag/IC systems must always be performed by an authorized Volvo workshop.
In case of doubt, consult the SRS and SIPS bag/IC service manual.

Is the vehicle equipped with SRS/SIPS bag/IC ?

Vehicles with SRS are most easily recognized by the letters SRS in the center of the steering wheel. If the vehicle also has a passenger side airbag, the letters SRS are stamped on the dashboard above the glove compartment. SRS vehicles from 1993 and onward also have explosive seatbelt tensioners. SIPS bags are only installed on SRS vehicles from 1995 and onward. SIPS bag decals are located on the windshield and seat compartment. Vehicles with IC can be recognized by the letters IC on the C/D panel (4 door) or the B panel (5 door).

General recommendations

- Be especially careful when working on or around SRS, SIPS, and IC components.
- Make sure that no wires are pinched, frayed, or pierced.
- Never install accessories by the sensors.
- Where applicable, work on the steering wheel, steering shaft, or steering gear must be done in accordance with the methods in the SRS section of VADIS.
- Certain components of the aforementioned systems must be grounded while working. Read the appropriate sections in VADIS.
- Install no accessories in the areas between the A and B posts, the B and C posts, and the C and D posts.

Test terminal

Data link connector in the passenger compartment.

Modifications introduced up to February 2004
Any changes made to the vehicles after this date are not included in the manual. If necessary refer to service bulletins.

Volvo models are sold in versions adapted for different markets. These adaptations depend on factors such as legal requirements, taxation, and market demands.
This manual may therefore include illustrations and text that do not apply to the vehicles in your country.

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Ignition switch symbols

X	= Accessories (audio position)
S	= Powered upon insertion of key
15	= The switch remains connected during start
15I	= Contact is broken while starting
30	= Constant power from the battery
50	= Start

Countries/Markets

A	= Austria
AUS	= Australia
B	= Belgium
CDN	= Canada
CH	= Switzerland
D	= Germany
DK	= Denmark
E	= Spain
EU/OS	= Markets outside USA and Canada
FIN	= Finland
GB	= Great Britain
ISR	= Israel
J	= Japan
KOR	= Korea
N	= Norway
NL	= Netherlands
S	= Sweden
USA	= United States of America
WEU	= Western Europe

Other

ACC	= Accessory
AMP	= Amplifier
AUDIO	= Audio system
AUTO	= Automatic transmission
Bi-X	= Bi-Xenon
BLIS	= Blindspot Indication System
CDCH	= CD Changer Under Shelf
CEM	= Central Electronic Module
DRL	= Daytime Running Lights
DSTC	= Dynamic Stability Traction Control
ECC	= Electronic climate control system
ECPS	= Electronic power steering
EXC	= Exclusive
EXT. D	= Extended electrical distribution
HISPEED	= High speed data bus
LH	= Left-hand side
LHD	= Left-hand drive
LOSPEED	= Low speed data bus
MAN	= Manual transmission
OPN	= Option (factory-installed)
PCL	= Power Child Lock
GASOLINE	= Gasoline
REM	= Rear Electronic Module
RH	= Right-hand side
RHD	= Right-hand drive
RTI	= Road Traffic Information
SRS	= Airbag
SULEV	= Super Ultra Low Emission Vehicle
SUBWOOF	= Subwoofer
T	= Turbo engine
ULEV	= Ultra Low Emission Vehicle
W/O	= Without
5CYL	= 5-cylinder engine
6CYL	= 6-cylinder engine

Colors

BL	= Blue
BN	= Brown
GN	= Green
GR	= Gray
LBL	= Light Blue
LGN	= Light Green
OR	= Orange
P	= Pink
R	= Red
SB	= Black
VO	= Violet
W	= White
Y	= Yellow

How to use the wiring diagrams 1:2

The descriptions below apply in general to all wiring diagram manuals, although not all sections are necessarily contained in this manual.

A. Component designation

Every component has a component designation that consists of two parts.

The first part is a type number that describes the type of component in question, for example 3/xx.

The second part of the designation is a serial number, e.g. x/2.

Together, this constitutes a component designation, e.g. 3/2.

At the end of the manual is a list of components, where, with the help of the component designation, you can read off the name of the component, for example, 3/2 = light switch.

List of type numbers

The list shows which type of component that respective type numbers refer to, for example, 3/x = switch, 6/x = electric motor, etc.

1	Battery
2	Relay
3	Switch
4	Control module
5	Driver information module
6	Electric motor
7	Sensor
8	Actuator
9	Heating element
10	Light
11	Fuse
15	Electrical distribution rail/box
16	Audio
17	Service/diagnostics
18	Contact reel
19	Meter
20	Ignition component/shunt
26	Converter
27	Optics
31	Ground connection
53	Junction point
54	Connector

B. Junction points

The wiring diagrams contain numbered junction points, e.g. 53/352.

This manual contains a section with a list of junction points. This list shows all the components which are connected to each junction point.

The location of the junction points is shown in the "Cable harness routing in vehicle" section.

C. Connectors

Connectors provide a bridge between two cables harnesses and are described in the "Connectors" section.

D: Electrical distribution

Operation of the fuses and relays is shown in the "Electrical distribution" section.

E. Data communication

Today's cars contain CAN and MOST networks that transfer information. Connections to these networks are not shown in their entirety in the respective wiring diagram. Complete information on CAN and MOST communication is found in the section "Control modules".

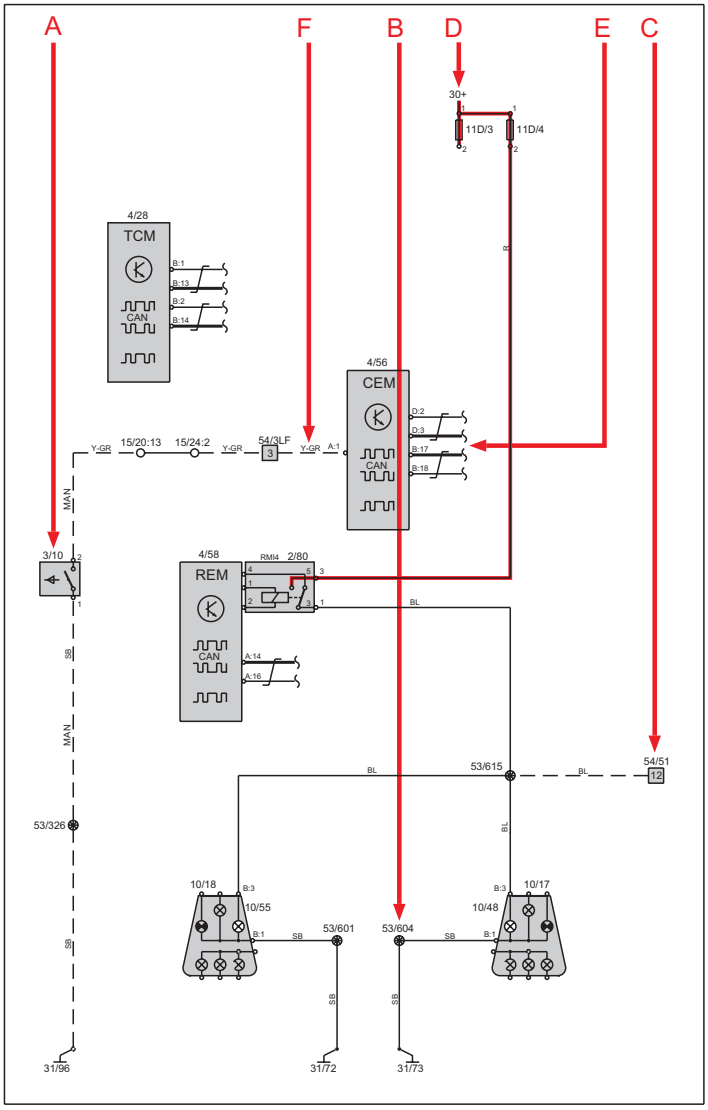
F. Abbreviations

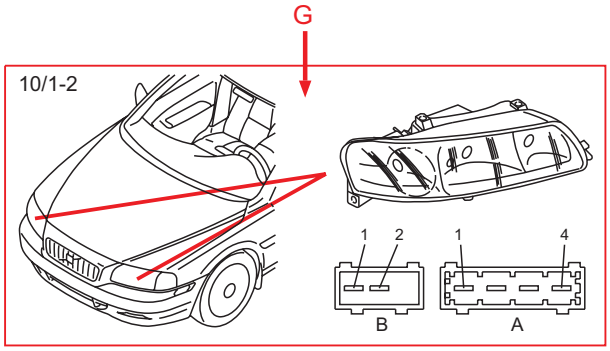
A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

G. Component location

There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

How to use the wiring diagrams 2:2





List of symbols

= System voltage

= Ground connection via wiring

= Ground connection on component/chassis

= Screened wire

= Junction point

= Twisted cable

= Electrical connection

= Variant

= CAN communication

= CAN high data signal (CAN H)

= CAN low data signal (CAN L)

= MOST communication

= LIN communication

= DIN cable, coaxial cable, etc.

= Data communication

= CAN communication

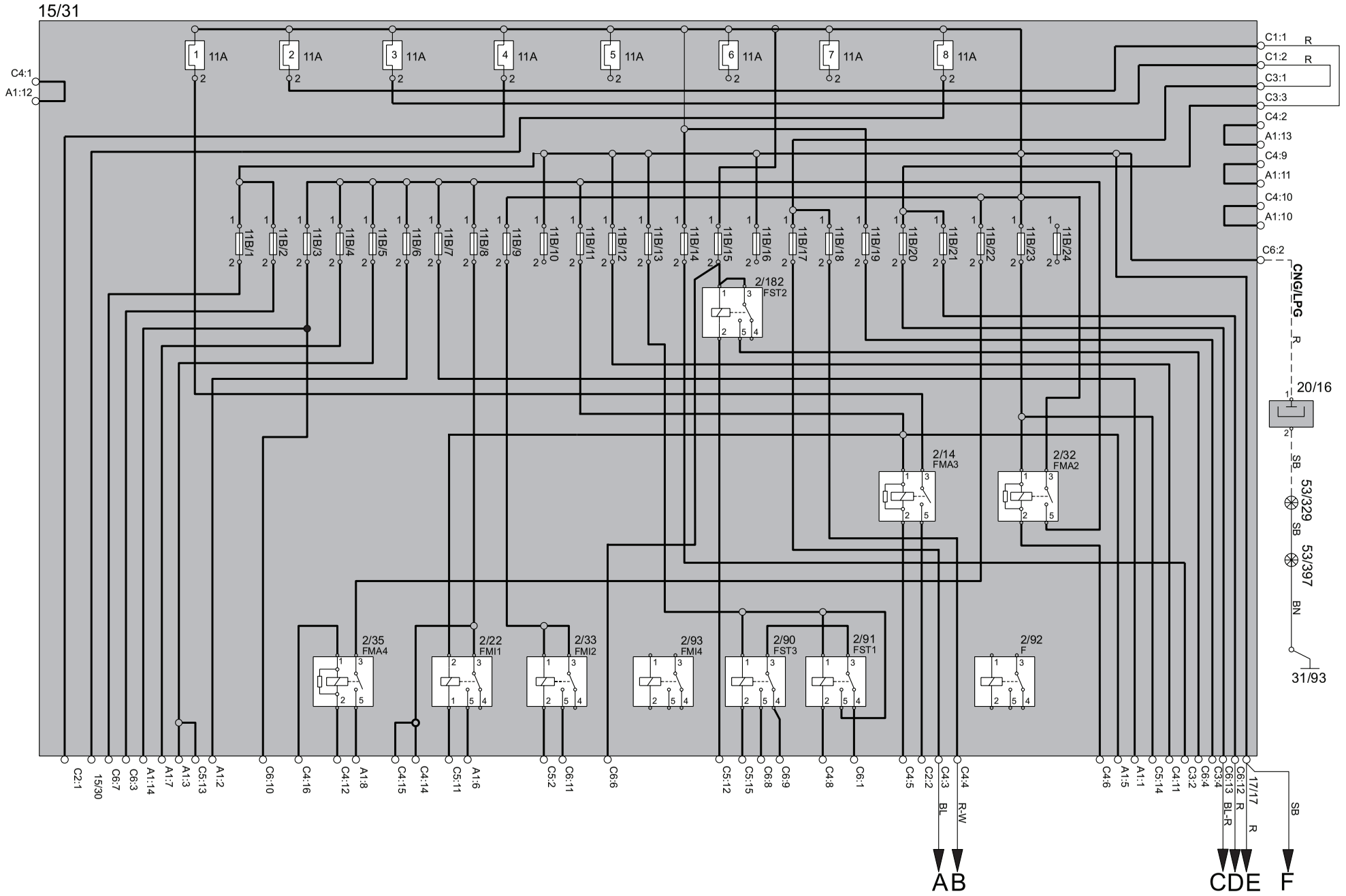
= Connection with distribution box

= Further connection to...

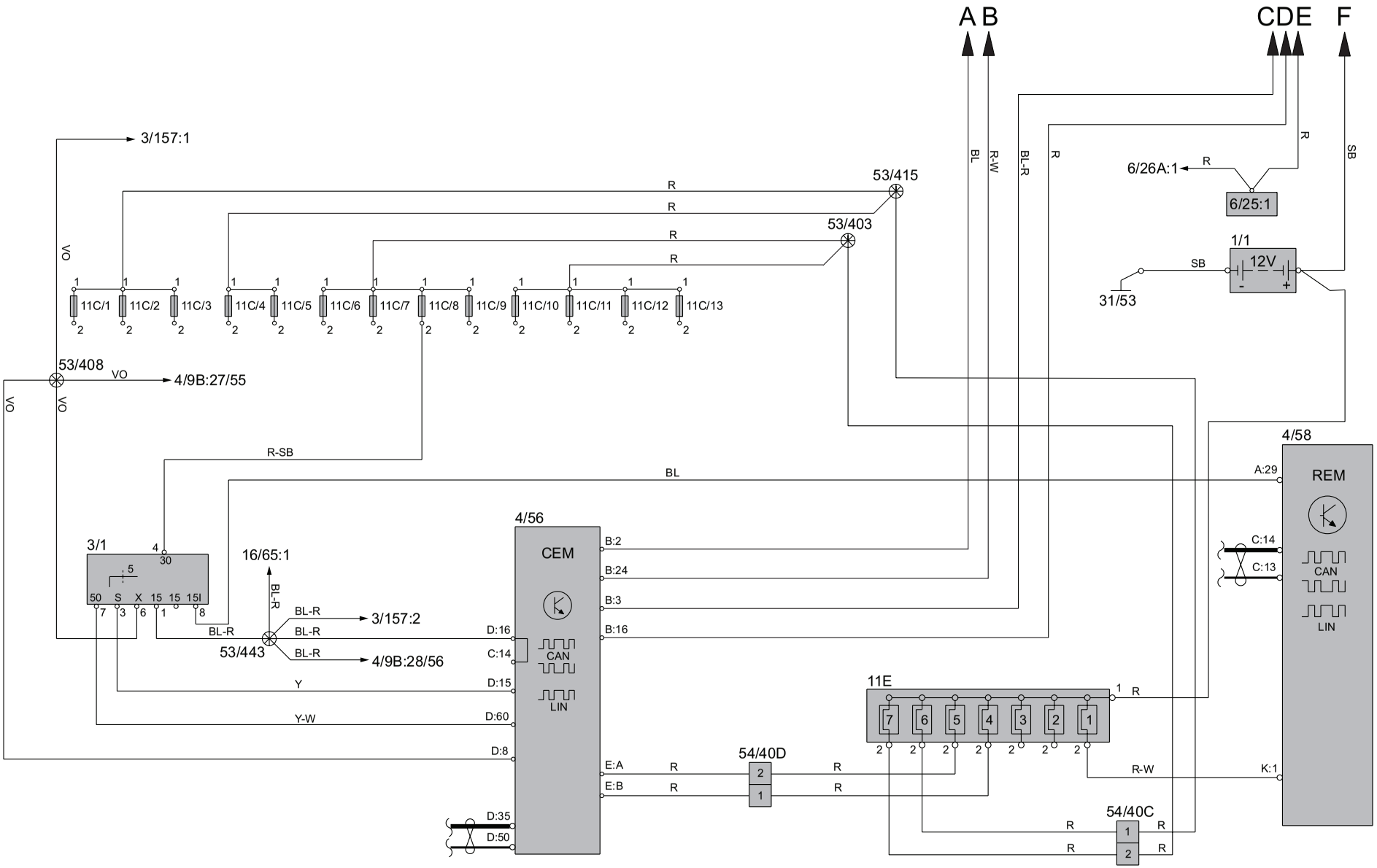
= Connector between wiring harnesses

= Connector connected to component

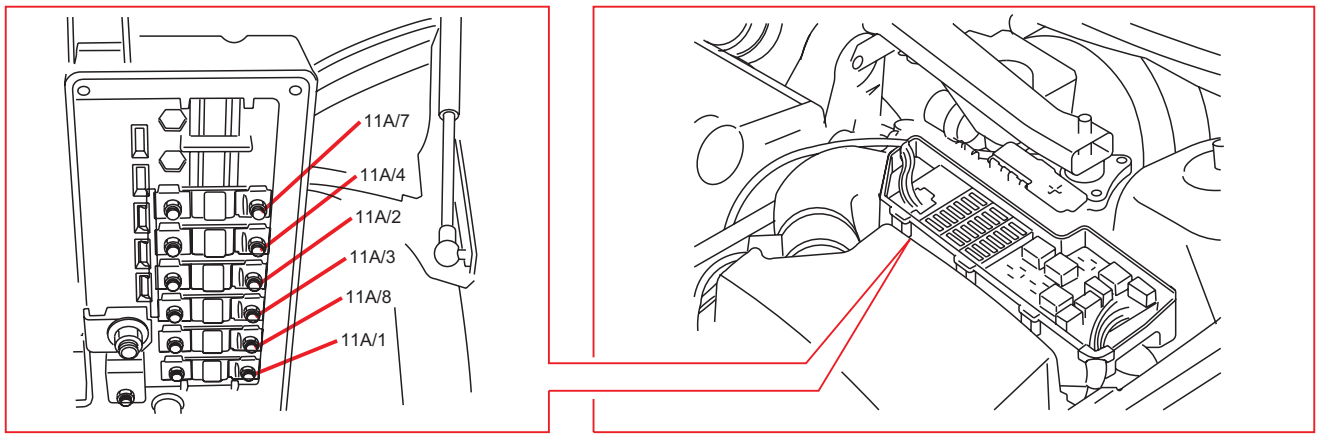
Electrical distribution 1:2
Overview



Electrical distribution 2:2
Overview



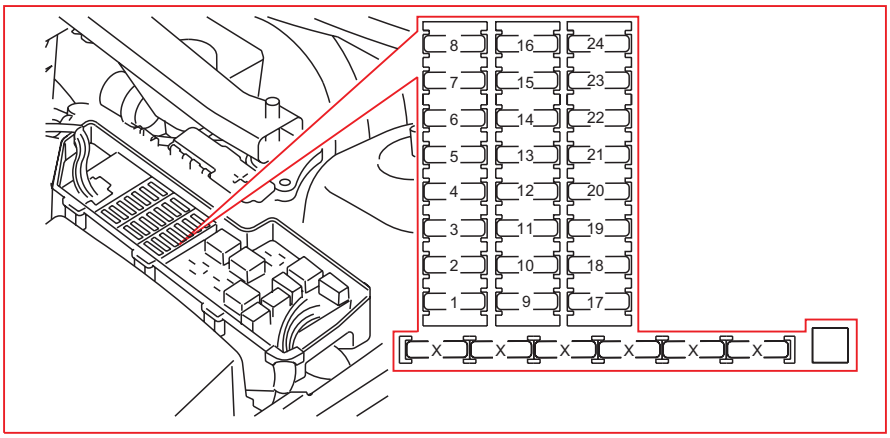
Fuses
Engine compartment 11A/1-8



11A Fuses in the engine compartment

No.	Fuse function		via	A
1	20/22-26	Glow plug	2/14	60
2	11B/20 11B/21	Fuses in engine compartment fuse box Fuses in engine compartment fuse box	- -	40
3	11B/17 11B/18	Fuses in engine compartment fuse box Fuses in engine compartment fuse box	- -	40
7		Accessories	-	60
8	6/29	Motor, electric cooling fan	4/71	60

Fuses
Engine compartment 11B/1-6

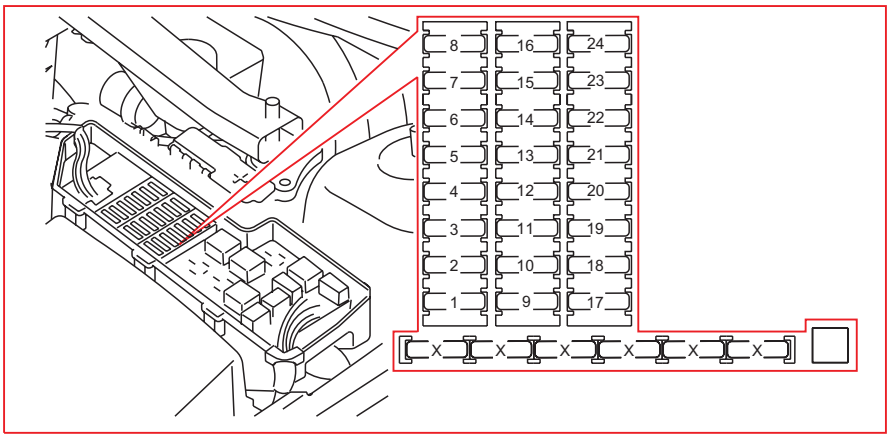


11B Fuses in the engine compartment

No.	Fuse function		via	A
1	6/35	Fuel pump, auxiliary heater	4/7	25
	6/73	Coolant pump, auxiliary heater	4/7	
	9/30	Auxiliary heater	4/7	
2	54/8:1	Accessory wiring, 30 feed	-	20
3	4/46	Engine Control Module (ECM), 5-cyl normally aspirated	-	10
	4/50	Electronic Throttle Module (ETM), CNG/LPG	-	
	6/120	Engine throttle body, 5-cyl normally aspirated	4/46	
4	4/46	Engine Control Module (ECM), Diesel, CNG/LPG	-	20
	7/15	Heated oxygen sensor	-	
	7/82	Heated oxygen sensor, diagnosis 1	-	
	7/103	Heated oxygen sensor 3	-	
	7/104	Heated oxygen sensor 4 (diagnostic probe)	-	
	8/111	Solenoid valve, high-pressure, Diesel	-	
5	6/67	Pump, fuel leakage control	-	10
	6/105	Fuel distributor, gas	-	
	8/17	EGR valve, Diesel	-	
	8/18	EVAP valve	-	
	8/19	Solenoid, variable valve time, inlet	-	
	8/28	Turbocharger control valve	-	
	8/64	Solenoid valve, engine mounting, Diesel	-	
	8/75	Valve, fuel cut-off DFCO	-	
	8/81	Solenoid, variable valve timing outlet	-	
	8/82	Solenoid, variable turbo geometry, Diesel	-	
	9/32	PTC resistor - air preheating	-	
6	7/17	Mass airflow sensor MAF, Diesel	-	10
	4/46	Engine Control Module (ECM), Gasoline	-	15
	7/17	Mass airflow sensor (MAF), Gasoline	-	
	8/6-11	Injectors	-	

continues

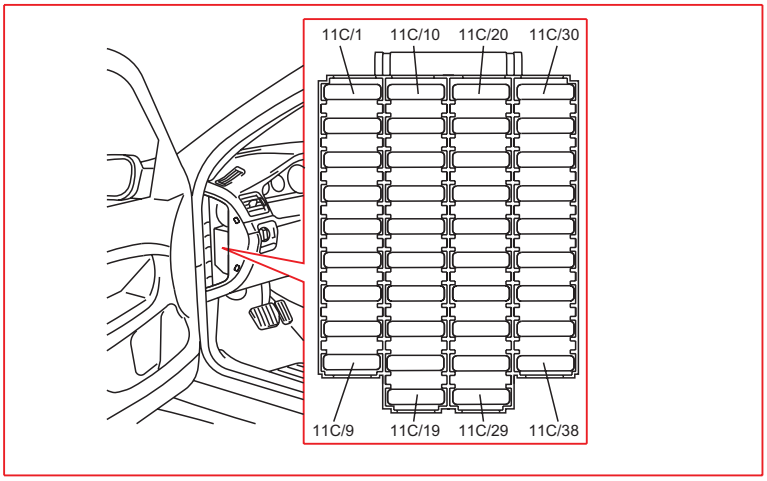
Fuses
Engine compartment 11B/8-23



11B Fuses in the engine compartment

No.	Fuse function		via	A
8	6/44 7/51 8/3	Cooling fan, electrics box, engine compartment Accelerator pedal sensor Electromagnetic clutch, climate control system	- - 2/22	10
9	2/33 8/79	Relay, fuel system Valve LPG	- 2/33	10
11	2/14 2/22 20/3-8	Relay, glow plug unit Relay, climate control system Spark plug and ignition coil	- - -	20
13	2/90 2/91 6/1	Relay, windshield wiper, low/high speed Relay, intermittent wiping Windshield wiper motor	- - 2/90, 2/91	25
14	4/16	Brake Control Module (BCM)	-	30
15	2/182 6/104	Relay, headlight washer motor High pressure headlight washer	- 2/182	35
17	10/1 10/70	Left front lamp housing, daytime running lights Left-hand low beam	4/56 4/56	20
18	10/11 10/12	Front left parking light Front right parking light	4/56 4/56	15
19	4/16	Brake Control Module (BCM)	-	30
20	10/2 10/66	Right front lamp housing, daytime running lights Right-hand low beam	4/56 4/56	20
21	4/83 6/31 6/33	Fuel pump control module Feed pump, ejectors Fuel pump	4/56 4/56 4/56	15
22	6/25	Starter motor	2/35	35
23	2/32 4/46	Engine management system main relay Engine Control Module (ECM), Gasoline	- -	10

Fuses
Passenger compartment 11C/1-7

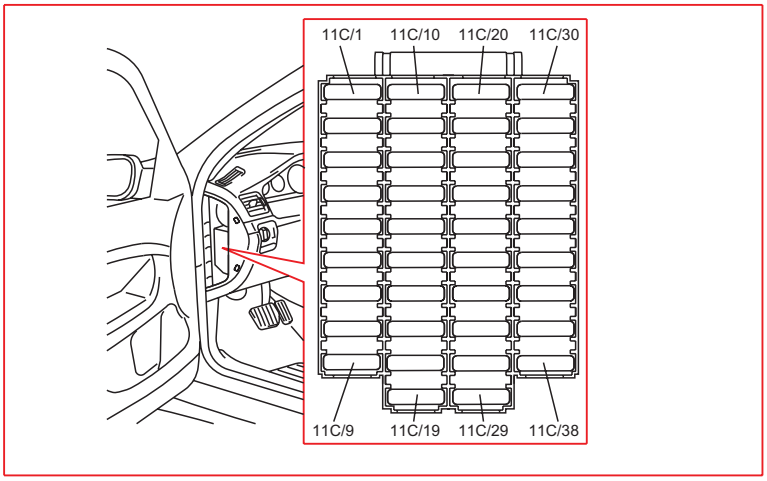


11C Fuses in the passenger compartment

No.	Fuse function		via	A
1	6/16	Driver seat motor, backrest angle	4/52	25
	6/17	Driver seat motor, up/down front edge	4/52	
	6/18	Driver seat motor, up/down rear edge	4/52	
	6/19	Driver seat motor, forward/backward	4/52	
2	6/20	Passenger seat motor, forward/backward	3/27	25
	6/64	Passenger seat motor, backrest angle	3/27	
	6/65	Passenger seat motor, up/down front edge	3/27	
	6/66	Passenger seat motor, up/down rear edge	3/27	
3	6/28	Motor, passenger compartment fan	4/31	30
4	3/74	Left-hand front door lock unit	3/126	25
	3/126	Driver/Passenger Door Module (DDM)/(PDM)	-	
	6/62	Left-hand power door mirror	3/126	
	9/33	Left-hand heated door mirror	3/126	
	10/148	Left-hand rearview mirror lighting	3/126	
5	3/75	Right-hand front door lock unit	3/127	25
	3/127	Passenger/Driver Door Module (PDM)/(DDM)	-	
	6/63	Right-hand power door mirror	3/127	
	9/34	Right-hand heated door mirror	3/127	
	10/149	Right-hand rearview mirror lighting	3/127	
6	3/117	Dome light control module	4/70	10
	4/70	Upper Electronic Module (UEM)	-	
	4/76	Remote control unit for garage door opener	4/70	
	7/149	Rain Sensor Module (RSM)	4/70	
	10/114	Left-hand vanity mirror lighting	4/70	
	10/115	Right-hand vanity mirror lighting	4/70	
	10/150	Rear reading light	4/70	
7	6/15	Sunroof motor	4/33	15

continues

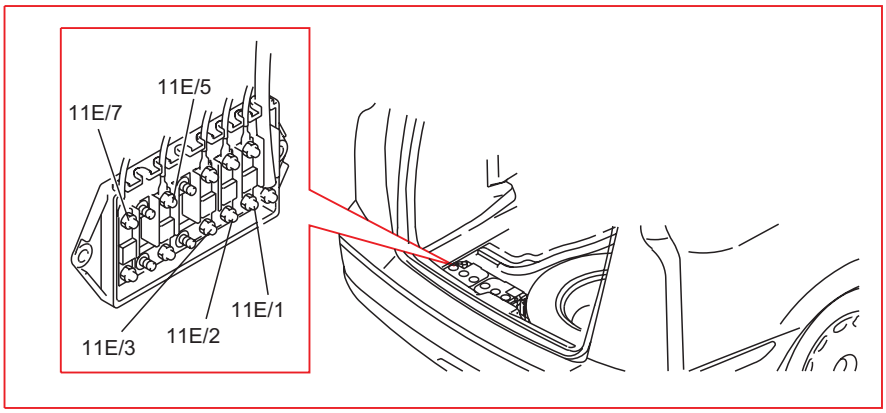
Fuses
Passenger compartment 11C/8-13



11C Fuses in the passenger compartment

No.	Fuse function		via	A
8	3/157	Passenger Airbag Cut Off Switch (PACOS)	3/1	7,5
	4/9	Control module, Supplemental Restraint System (SRS)	3/1	
	4/46	Engine Control Module (ECM)	3/1, 4/56	
	4/56	Central Electronic Module (CEM)	3/1	
	4/58	Rear Electronic Module (REM)	3/1	
	16/65	Antenna ring/ignition switch lighting	3/1	
9	3/111	Light Switch Module (LSM)	-	5
	3/254	Steering Wheel Module (SWM)	-	
	4/68	Steering Angle Sensor Module (SAS)	3/254	
	17/13	Data link connector	-	
10	16/1	Audio Module (AUM)	-	20
11	16/2	Amplifier	-	30
12	16/46	RTI Display	-	10
13	16/60	Phone Module (PHM)	-	5

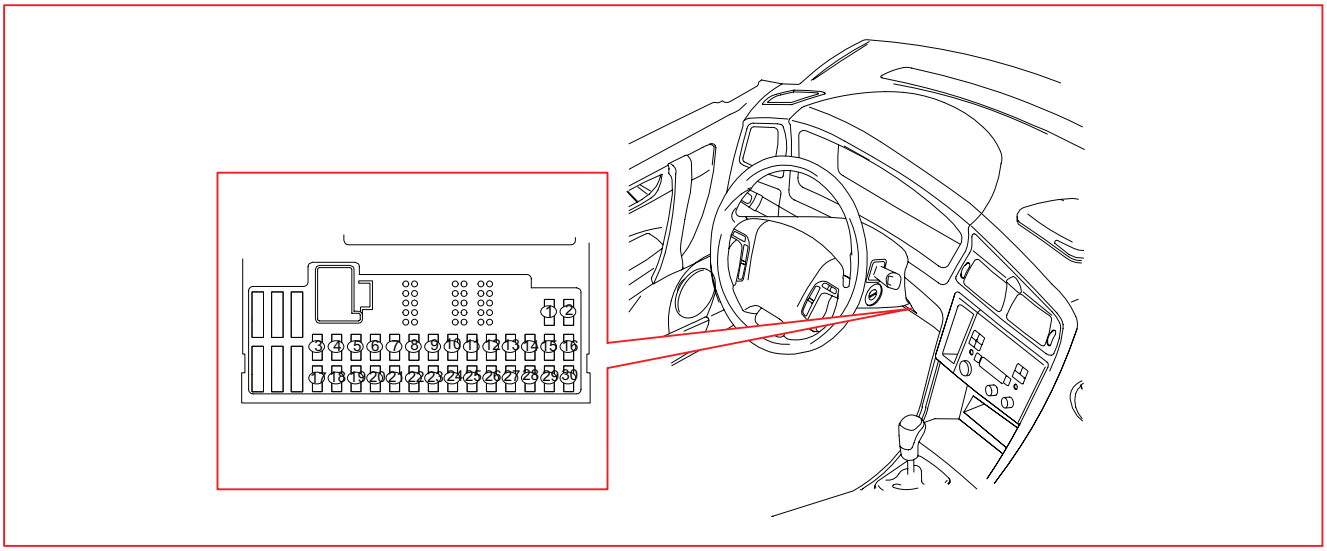
Fuses
Battery 11E/1-7



11E Fuses by the battery

No.	Fuse function	via	A
1	4/58 Rear Electronic Module (REM) Main fuse for: F1-F38	-	60
4	4/56 Central Electronic Module (CEM) Main fuse for: F1-F2, F11, F13-F16, F26-F30, F33	- -	50
5	4/56 Central Electronic Module (CEM) Main fuse for: F3, F5-F10, F17-F23, F31-F32, F34	- -	50
6	11C/1-5 Fuses in passenger compartment fuse box	-	50
7	11C/6-13 Fuses in passenger compartment fuse box	-	50

Fuses
Central Electronic Module (CEM) F1-F16

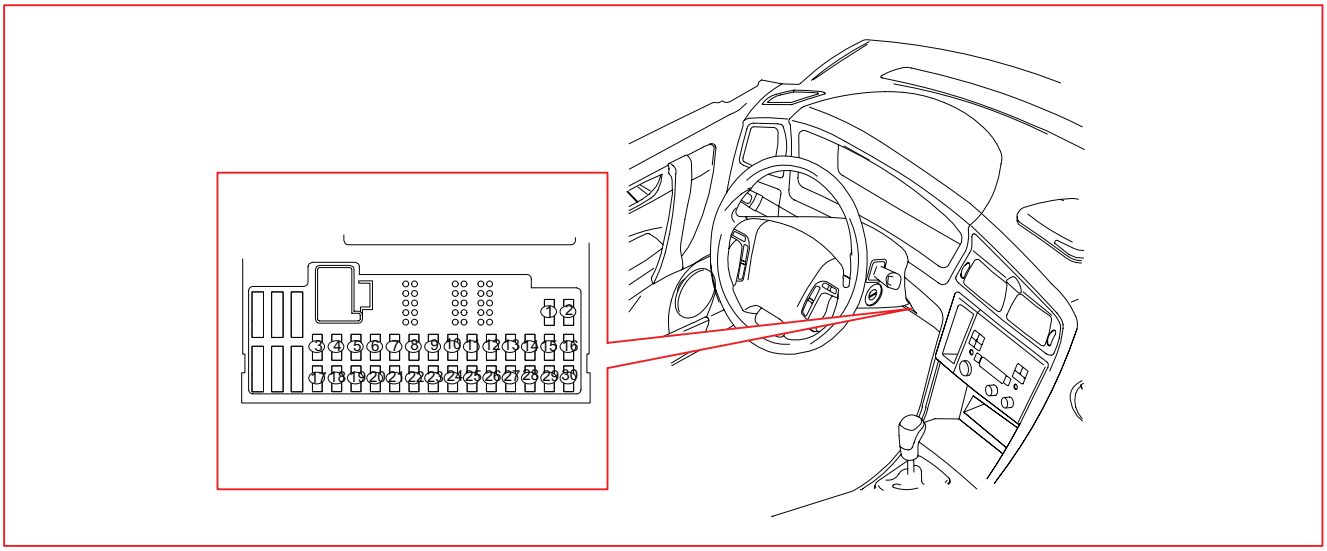


4/56 Central Electronic Module (CEM)

No.	Fuse function		via	A
F1	9/13	Right seat warmer	-	15
F2	9/12	Left seat heater	-	15
F3	16/10	Horn 1	-	15
	16/11	Horn 2	-	
F8	16/35	Siren Control Module (SCM)	-	5
F9	3/9	Brake light contact	-	5
F10	3/112	Climate Control Module (CCM)	-	10
	4/7	Combustion Preheater Module (CPM)	-	
	4/52	Power Seat Module (PSM)	-	
	5/1	Driver Information Module (DIM)	-	
	7/93	Occupant Weight Sensor (OWS)	-	
	7/192	Temperature sensor, evaporator	-	
F11	9/1	Front 12V outlet	-	15
	9/25	Rear 12V outlet	-	
F14	6/3	Right-hand headlight wiper motor, S80, S60R	-	15
	6/4	Left-hand headlight wiper motor, S80, S60R	-	
F15	4/16	Brake control module (BCM)	-	5
F16	4/99	Electronic power steering control module	-	10
	8/76	Gas tank valve	4/58	
	8/88	Solenoid, gas tank CNG rear	4/58	
	8/89	Solenoid, fuel tank CNG front left	4/58	
	8/90	Solenoid, fuel tank CNG front right	4/58	
	6/38	Left-hand headlight level adjustment motor	-	
	6/39	Right-hand headlight adjustment motor	-	
	10/1	Left front lamp housing, Bi-Xenon	-	
	10/2	Right front lamp housing, Bi-Xenon	-	

continues

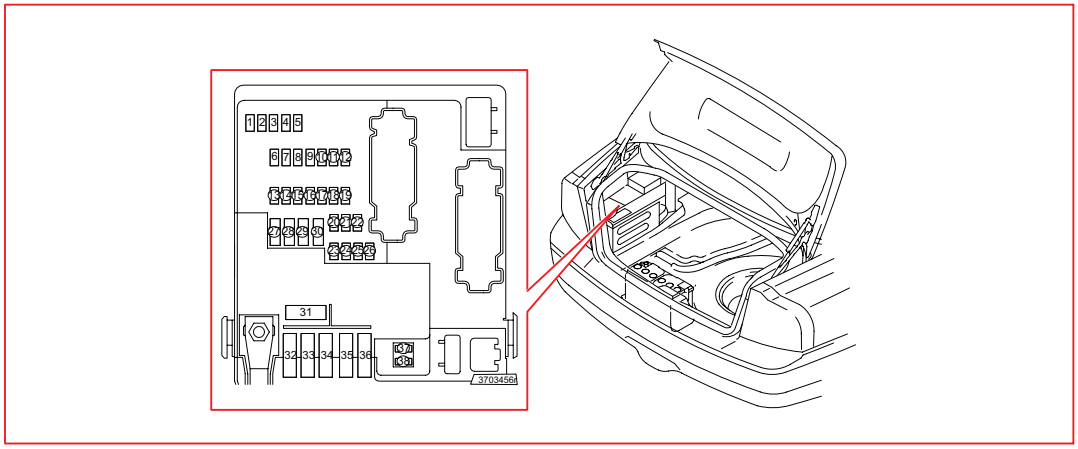
Fuses
Central Electronic Module (CEM) F17-F34



4/56 Central Electronic Module (CEM)

No.	Fuse function		via	A
F17	10/5	Front left fog light	-	7,5
F18	10/6	Front right fog light	-	7,5
F21	3/156 4/28	Gear Selector Module (GSM) Transmission Control Module (TCM)	- -	10
F22	10/68	Left-hand high beam	-	10
F23	10/64	Right-hand high beam	-	10
F28	3/27 16/1	Power passenger seat module Audio Module (AUM)	- -	5
F30	27/3 27/4	Left-hand Camera Module (LCM) Right-hand Camera Module (RCM)	- -	5
F33	6/114	Vacuum pump	8/84	20
F34	6/3 6/4 6/127	Right-hand headlight wiper motor Left-hand headlight wiper motor Washer pump	- - -	15

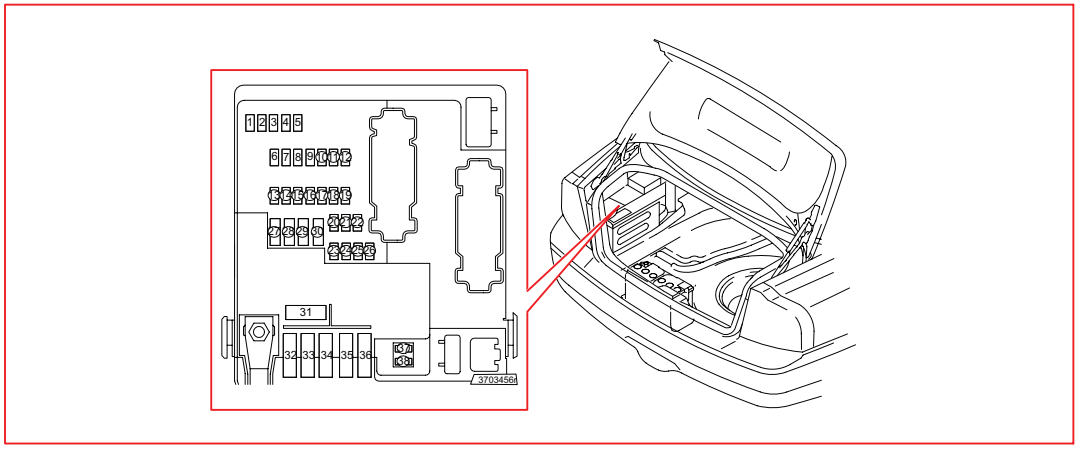
Fuses
Rear Electronic Module (REM) F1-F19



4/58 Rear Electronic Module (REM)

No.	Fuse function		via	A
F1	10/48 10/55	Right-hand reversing light Left-hand reversing light	- -	10
F2	10/42 10/44 10/46 10/49 10/51 10/53 10/127 10/128	Rear right parking light Right-hand tail light lamp 1 Fog light, right rear Rear left parking light Left-hand tail light lamp 1 Fog light, left rear Lighting, cargo compartment, left-hand side Lighting, cargo compartment, right-hand side	- - - - 	20
F3	4/78	Accessory Electronic Module (AEM)	-	15
F5	4/58	Rear Electronic Module (REM)	-	10
F6	16/15 16/36 16/45	CD changer TV receiver Road Traffic Information (RTI)	- - -	7,5
F7	17/39	13-pin outlet, towbar cable harness	-	15
F8	17/19	Accessories	-	15
F9	6/93	Motor, rear right power window	3/86	20
F10	6/92	Motor, rear left power window	3/85	20
F13	8/85	Thermostatic switch and fuel filter heating	-	15
F19	8/59 8/60	Rear left head restraint solenoid Rear right head restraint solenoid	- -	15

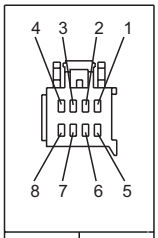
Fuses
Rear Electronic Module (REM) F20-F38



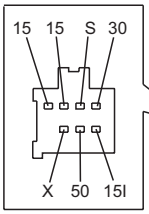
4/58 Rear Electronic Module (REM)

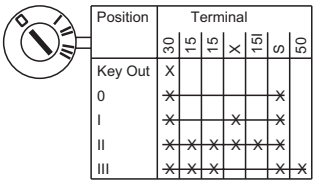
No.	Fuse function		via	A
F20	17/39	13-pin outlet, towbar cable harness	-	20
F23	4/82	Differential Electronic Module (DEM)	-	7,5
F24	4/84	Suspension Module (SUM)	-	15
F26	4/86	Parking Assistance Module (PAM)	-	5
F27		Main fuse for F23-F24, F26 and trailer functions	-	30
F28	3/76 3/77 3/78 6/37	Left-hand rear door lock unit Right-hand rear door lock unit Trunk lid lock unit Lock motor, fuel filler flap	- - - -	15
F29	4/110	Trailer Module (TRM) - position lights - left-hand direction indicator	- - -	25
F30	4/110	Trailer Module (TRM) - brake lights - fog lights - right-hand direction indicator	- - - -	25
F31		Main fuse for: F37-F38	-	40
F37	9/2	Heated rear window	16/16	20
F38	9/2	Heated rear window	16/16	20

Relays
Ignition switch and relays



Term.	Color
1	BL-R
2	-
3	Y
4	R-SB
5	-
6	VO
7	Y-W
8	BL

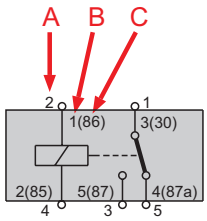




Position	Terminal						
	30	15	15	X	15I	S	50
Key Out	X						
0	X					X	
I	X			X		X	
II	X	X	X	X	X	X	
III	X	X	X			X	X

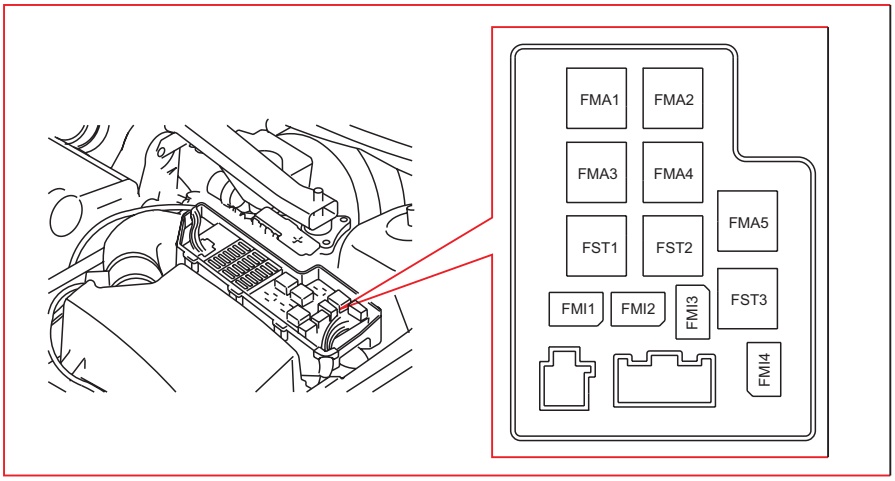
Relays, general

The diagram indicates two or three different designations for the relay's position. This is described below.



A = Corresponds to the position on the back of the relay box (wiring side)
B = Corresponds to the position on the relay.
C = An old designation that may be found on the relay.

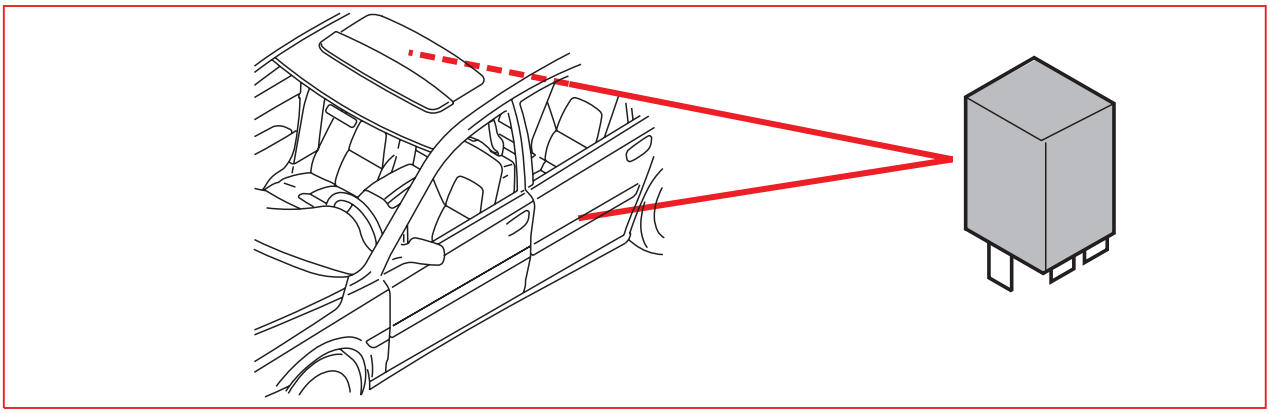
Relays
Engine compartment FMA2 - FST3



Relays in the engine compartment

Pos	Relay function	
FMA2	2/32	Engine management system main relay
FMA3	2/14	Relay, glow plug unit
FMA4	2/35	Starter motor relay
FMI1	2/22	Relay, climate control system
FMI2	2/33	Relay, fuel system, CNG/LPG
FST1	2/91	Relay, intermittent wiping
FST2	2/182	Relay, headlight washer motor
FST3	2/90	Relay, windshield wiper, low/high speed

Relays
Other relays



Other relays

Pos	Relay function	
Left-hand rear door	2/138	Deadlock relay, left-hand rear door
Right-hand rear door	2/139	Deadlock relay, right-hand rear door

Ground connections
31/1 - 31/44

31/1	Right MacPherson strut tower
6/3	Right-hand headlight wiper motor
6/104	Pump, high pressure headlight washer
7/5	Washer fluid level sensor

31/2	Left MacPherson strut tower
4/71	Cooling fan control module

31/4	Engine
31/44	Ground connection

31/5	D post, right-hand
9/2	Heated rear window

31/6	A-post, left-hand side
3/6	Hazard warning flasher switch
4/31	Fan control module, RHD
4/33	Sunroof Control Module (SRM)
4/56	Central Electronic Module (CEM), LHD
10/29	Glove compartment lighting
10/125	Left-hand front courtesy lighting
10/126	Right-hand front courtesy lighting
16/65	Antenna ring/ignition switch lighting

31/10	A-post, right-hand side
4/31	Fan control module, LHD
4/56	Central Electronic Module (CEM), RHD
4/84	Suspension Module (SUM)
9/1	Front 12V outlet
9/25	Rear 12V outlet

31/44	Left-hand side member, lower engine compartment
31/4	Ground connection

Ground connections
31/46 - 31/67

31/46	Rear seat support, left-hand side
3/27	Switch unit, power passenger seat, RHD
3/76	Left-hand rear door lock unit
3/85	Rear left door power window switch
4/52	Power Seat Module (PSM), LHD
4/82	Differential Electronic Module (DEM)
8/51	Front left side airbag igniter
8/59	Rear left head restraint solenoid
9/12	Left seat heater

31/47	Rear seat support, left-hand side
4/58	Rear Electronic Module (REM)

31/48	Rear seat support, right-hand side
4/83	Fuel pump control module
6/31	Feed pump, ejectors
6/33	Fuel pump

31/53	Firewall
1/1	Battery

31/66	Front seat support, left-hand side
3/126	Driver/Passenger Door Module (DDM)/(PDM)
27/3	Left-hand Camera Module (LCM)

31/67	Front seat support, right-hand side
3/27	Switch unit, power passenger seat, LHD
3/86	Rear right door power window switch
3/127	Passenger/Driver Door Module (PDM)/(DDM)
4/52	Power Seat Module (PSM), RHD
6/35	Fuel pump, auxiliary heater
7/93	Occupant Weight Sensor (OWS)
8/52	Front right side airbag igniter
9/13	Right seat warmer
10/123	Right rear courtesy lighting, S80
27/4	Right-hand Camera Module (RCM)

Ground connections
31/70 - 31/83

31/70	Left-hand side member, lower engine compartment
10/65	Auxiliary light, front right, accessories
10/69	FL auxiliary light, accessory

31/72	Rear seat support, left-hand side
4/58	Rear Electronic Module (REM)
4/86	Parking Assistance Module (PAM)
7/100	Inclination Sensor Module (ISM)
10/18	Lamp housing, rear left
10/127	Lighting, cargo compartment, left-hand side
16/15	CD changer, accessories
16/45	Road Traffic Information, RTI

31/73	Rear seat support, right-hand side
8/60	Rear right head restraint solenoid
8/76	Gas tank valve, Bi-Fuel
8/85	Thermostatic switch and fuel filter heating
8/88	Solenoid, gas tank CNG rear
8/89	Solenoid, fuel tank CNG front left
8/90	Solenoid, fuel tank CNG front right
10/17	Lamp housing, rear right
10/128	Lighting, cargo compartment, right-hand side
17/19	12V outlet, cargo compartment

31/83	A-post, left-hand side
3/117	Dome light control module
4/33	Sunroof Control Module (SRM)
4/70	Upper Electronic Module (UEM)
5/1	Driver Information Module (DIM)
7/122	Mass Movement Sensor (MMS), front
7/149	Rain Sensor Module (RSM)
10/19	Auxiliary brake light
10/114	Left-hand vanity mirror lighting
10/150	Rear reading light
16/65	Antenna ring/ignition switch lighting
31/98	Ground connection

Ground connections
31/84 - 31/91

31/84	A-post, right-hand side
3/111	Light Switch Module (LSM)
3/112	Climate Control Module (CCM)
3/254	Steering Wheel Module (SWM)
7/192	Temperature sensor, evaporator
16/1	Audio Module (AUM)
16/2	Amplifier
16/46	RTI Display
16/60	Phone Module (PHM)
17/13	Data link connector

31/88	Engine, ignition coils, group 1
20/3	Spark plug and ignition coil
20/4	Spark plug and ignition coil

31/89	Engine, ignition coils, group 2
20/5	Spark plug and ignition coil
20/6	Spark plug and ignition coil
20/7	Spark plug and ignition coil
20/8	Spark plug and ignition coil

31/91	Engine
4/50	Electronic Throttle Module (ETM), Bi-Fuel
9/32	PTC resistor - air preheating, Bi-Fuel

Ground connections
31/93 - 31/94

31/93	Left MacPherson strut tower
3/10	Reversing light contact, MAN
3/62	Hood alarm contact
4/56	Central Electronic Module (CEM)
4/99	Electronic power steering control module
6/1	Windshield wiper motor
6/4	Motor, left-hand headlight
6/38	Left-hand headlight level adjustment motor
6/114	Vacuum pump
7/4	Brake fluid level sensor
7/73	Coolant level sensor
7/51	Accelerator pedal sensor
8/37	Automatic transmission
8/79	Valve LPG, Bi-Fuel
8/134	Solenoid, reverse interlock, manual
10/1	Left-hand front lamp housing
10/5	Front left fog light
10/11	Front left parking light
10/13	Front left direction indicator
10/15	Front left fender direction indicator, EU/OS
10/71	Front left side marker light
15/31	Engine compartment distribution box
16/10	Horn 1
16/11	Horn 2
54/9	Connector

31/94	Right MacPherson strut tower
4/28	Transmission Control Module (TCM)
6/39	Right-hand headlight adjustment motor
10/2	Right-hand front lamp housing
10/6	Front right fog light
10/12	Front right parking light
10/14	Front right direction indicator
10/16	Front right fender direction indicator, EU/OS
10/73	Front right side marker light
16/35	Siren Control Module (SCM)

Ground connections
31/95 - 31/120

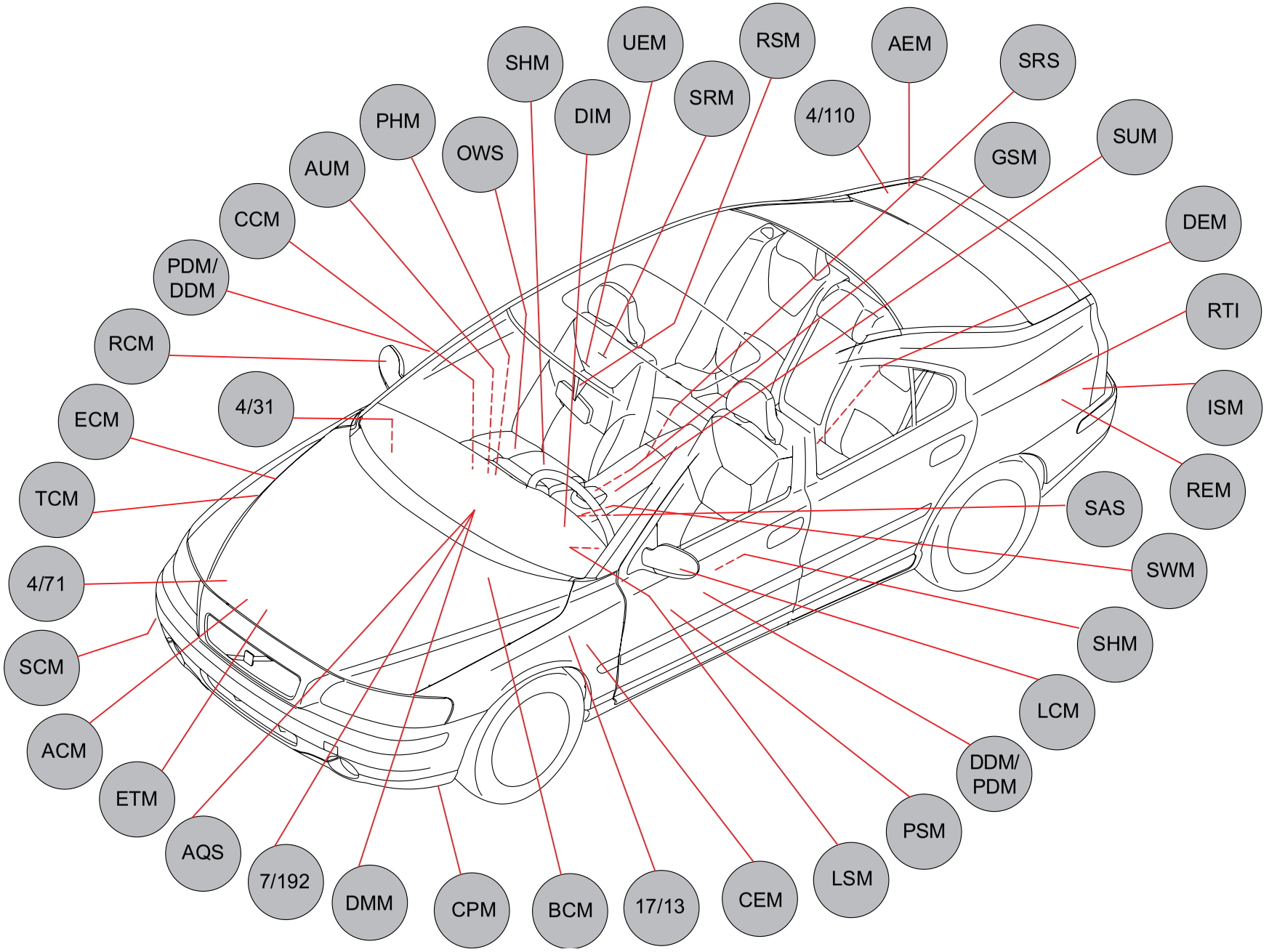
31/95	Left MacPherson strut tower
4/16	Brake control module (BCM)

31/96	Right MacPherson strut tower
4/46	Engine Control Module (ECM)
6/105	Fuel distributor, gas, CNG/LPG
9/32	PTC resistor - air preheating, Diesel, Gasoline 5-cyl

31/98	Windshield member, upper
3/117	Dome light control module
4/33	Sunroof Control Module (SRM)
4/70	Upper Electronic Module (UEM)
5/1	Driver Information Module (DIM)
7/122	Mass Movement Sensor (MMS)
7/149	Rain Sensor Module (RSM)
10/19	Auxiliary brake light
10/114	Left-hand vanity mirror lighting
10/115	Right-hand vanity mirror lighting
10/150	Rear reading light
16/65	Antenna ring/ignition switch lighting
31/83	Ground connection

31/120	Cargo compartment
4/78	Accessory Electronic Module (AEM)
4/110	Trailer Module (TRM)
17/39	13-pin outlet, towbar cable harness

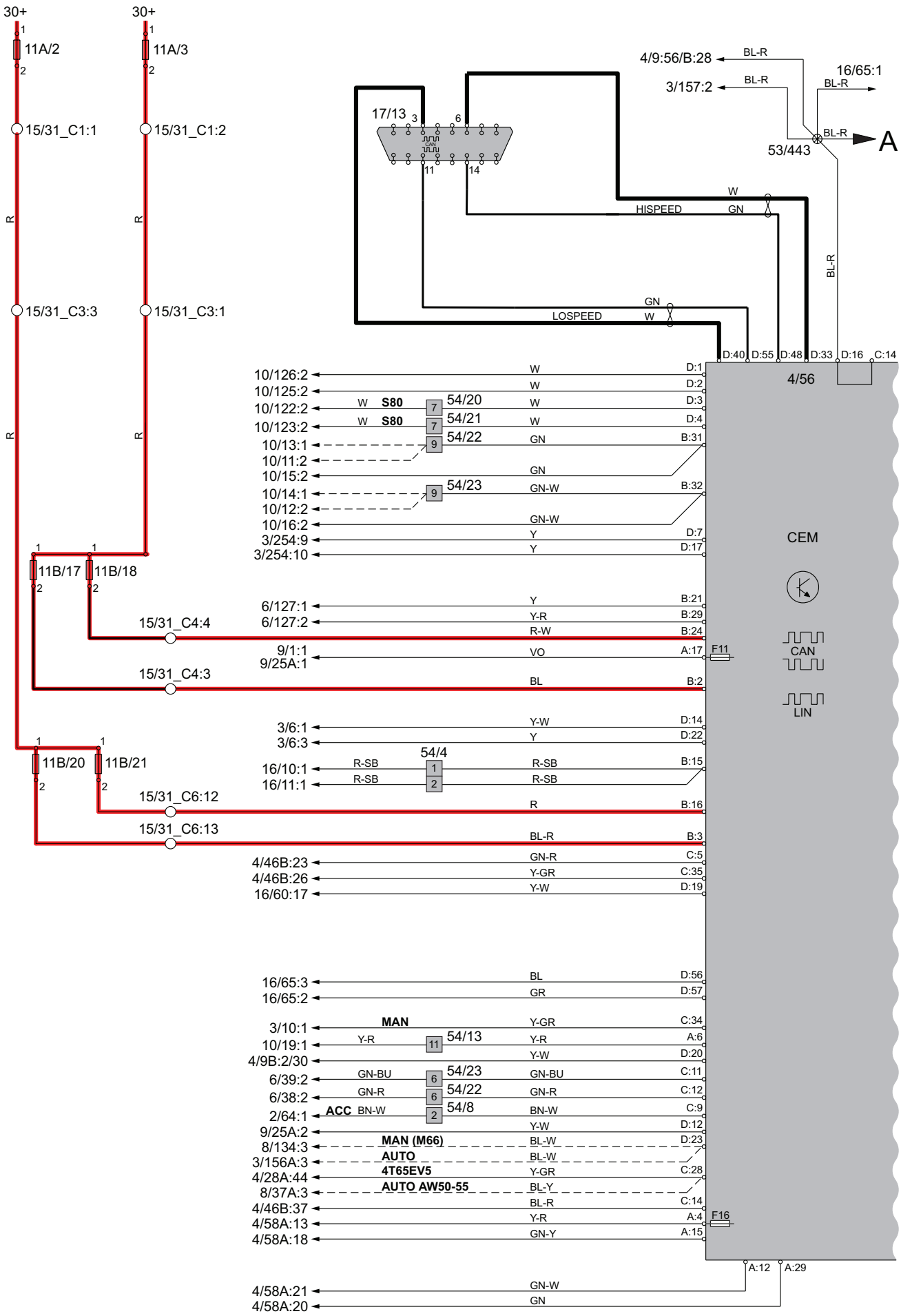
Control modules
Overview of locations



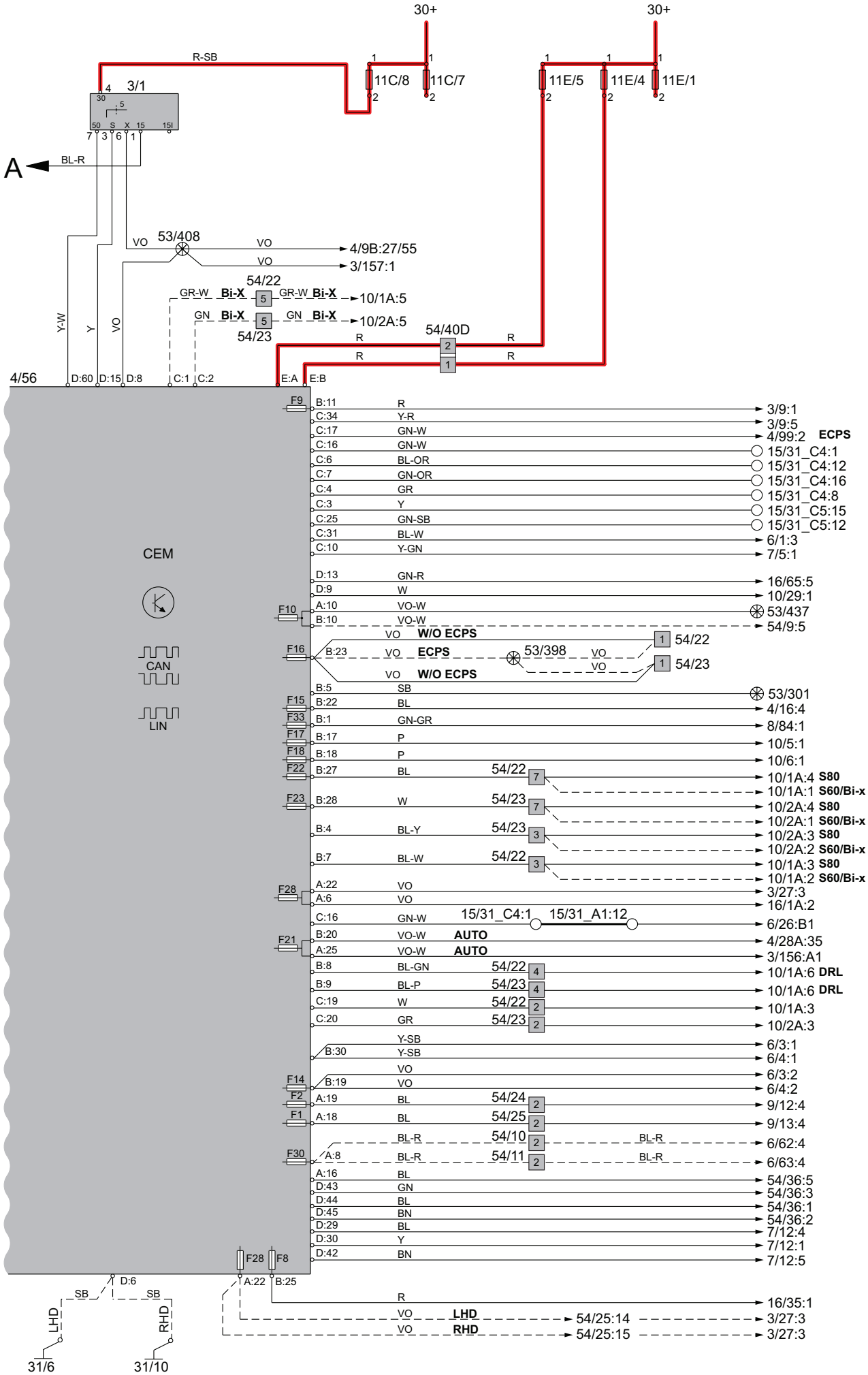
Control modules
Overview of designations

Unit	Designation	
ACM	6/26	Alternator Control Module (ACM)
AEM	4/78	Accessory Electronic Module (AEM)
AQS	7/159	Air Quality Sensor (AQS)
AUM	16/1	Audio Module (AUM)
BCM	4/16	Brake control module (BCM)
CCM	3/112	Climate Control Module (CCM)
CEM	4/56	Central Electronic Module (CEM)
CPM	4/7	Combustion Preheater Module (CPM)
DDM/PDM	3/126	Driver/Passenger Door Module (DDM)/(PDM)
DEM	4/82	Differential Electronic Module (DEM)
DIM	5/1	Driver Information Module (DIM)
DMM		Damper Motor Module (DMM) -6/48 Damper Motor Module (DMM), recirculation -6/95 Damper Motor Module (DMM), left-hand side -6/96 Damper Motor Module (DMM), right-hand side -6/102 Damper Motor Module (DMM), defroster -6/103 Damper Motor Module (DMM), floor/ventilation
ECM	4/46	Engine Control Module (ECM)
ETM	4/50	Electronic Throttle Module (ETM)
GSM	3/156	Gear Selector Module (GSM)
ISM	7/100	Inclination Sensor Module (ISM)
LCM	27/3	Left-hand Camera Module (LCM)
LSM	3/111	Light Switch Module (LSM)
OWS	7/93	Occupant Weight Sensor (OWS)
PDM/DDM	3/127	Passenger/Driver Door Module (PDM)/(DDM)
PHM	16/60	Phone Module (PHM)
PSM	4/52	Power Seat Module (PSM)
RCM	27/4	Right-hand Camera Module (RCM)
REM	4/58	Rear Electronic Module (REM)
RSM	7/149	Rain Sensor Module (RSM)
RTI	16/45	Road Traffic Information (RTI)
SAS	4/68	Steering Angle Sensor Module (SAS)
SCM	16/35	Siren Control Module (SCM)
SHM		Seat Heater Module (SHM) -9/12 Seat Heater Module (SHM), driver's side -9/13 Seat Heater Module (SHM), passenger side
SRM	4/33	Sunroof Control Module (SRM)
SRS	4/9	Control module, Supplemental Restraint System (SRS)
SUM	4/84	Suspension Module (SUM)
SWM	3/254	Steering Wheel Module (SWM)
TCM	4/28	Transmission Control Module (TCM)
TRM	4/110	Trailer Module (TRM)
UEM	4/70	Upper Electronic Module (UEM)
4/31	4/31	Fan control module
4/71	4/71	Cooling fan control module
17/13	17/13	Data link connector
7/192	7/192	Water detection sensor

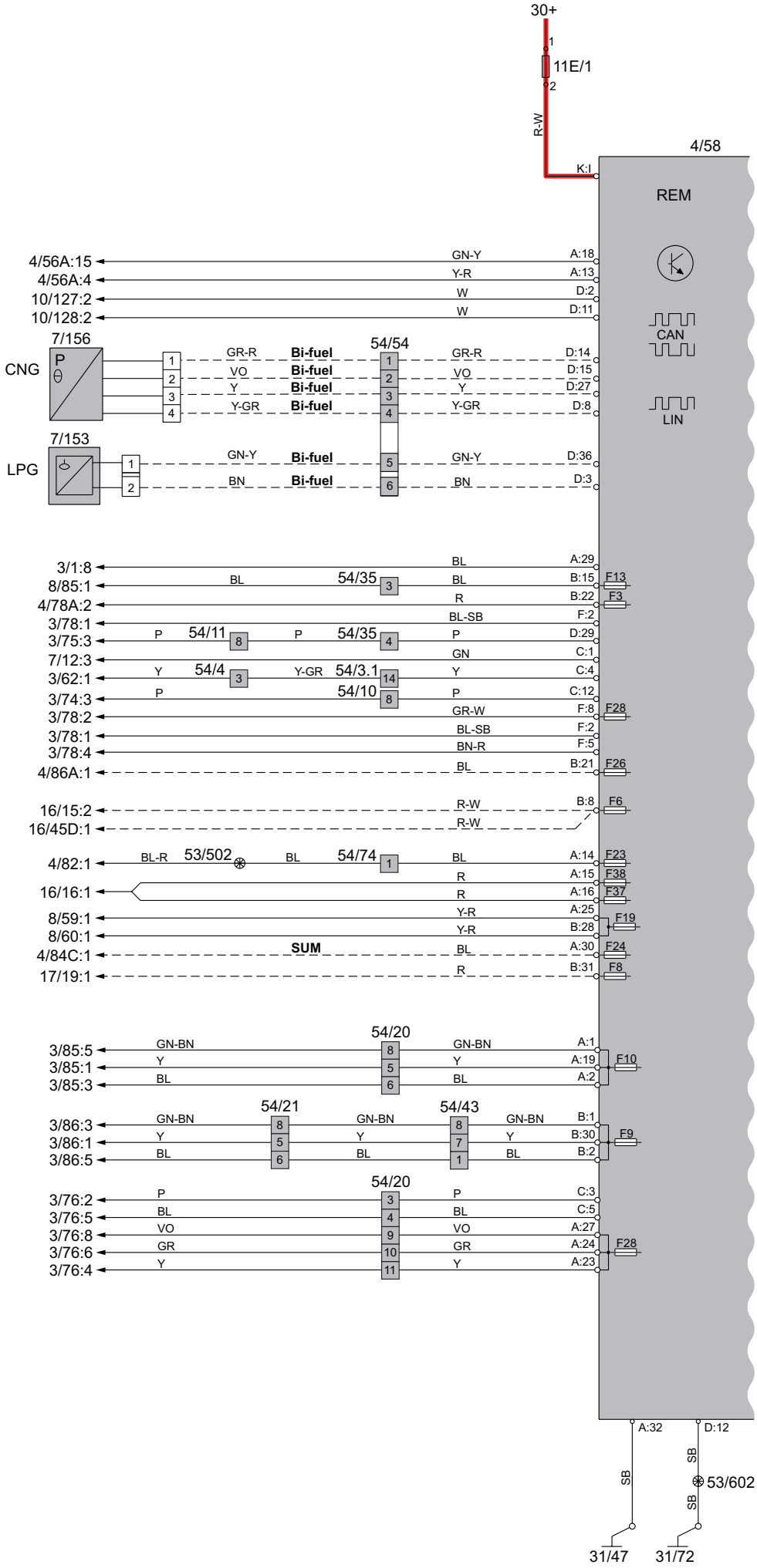
Control modules
Central Electronic Module (CEM) 1:2



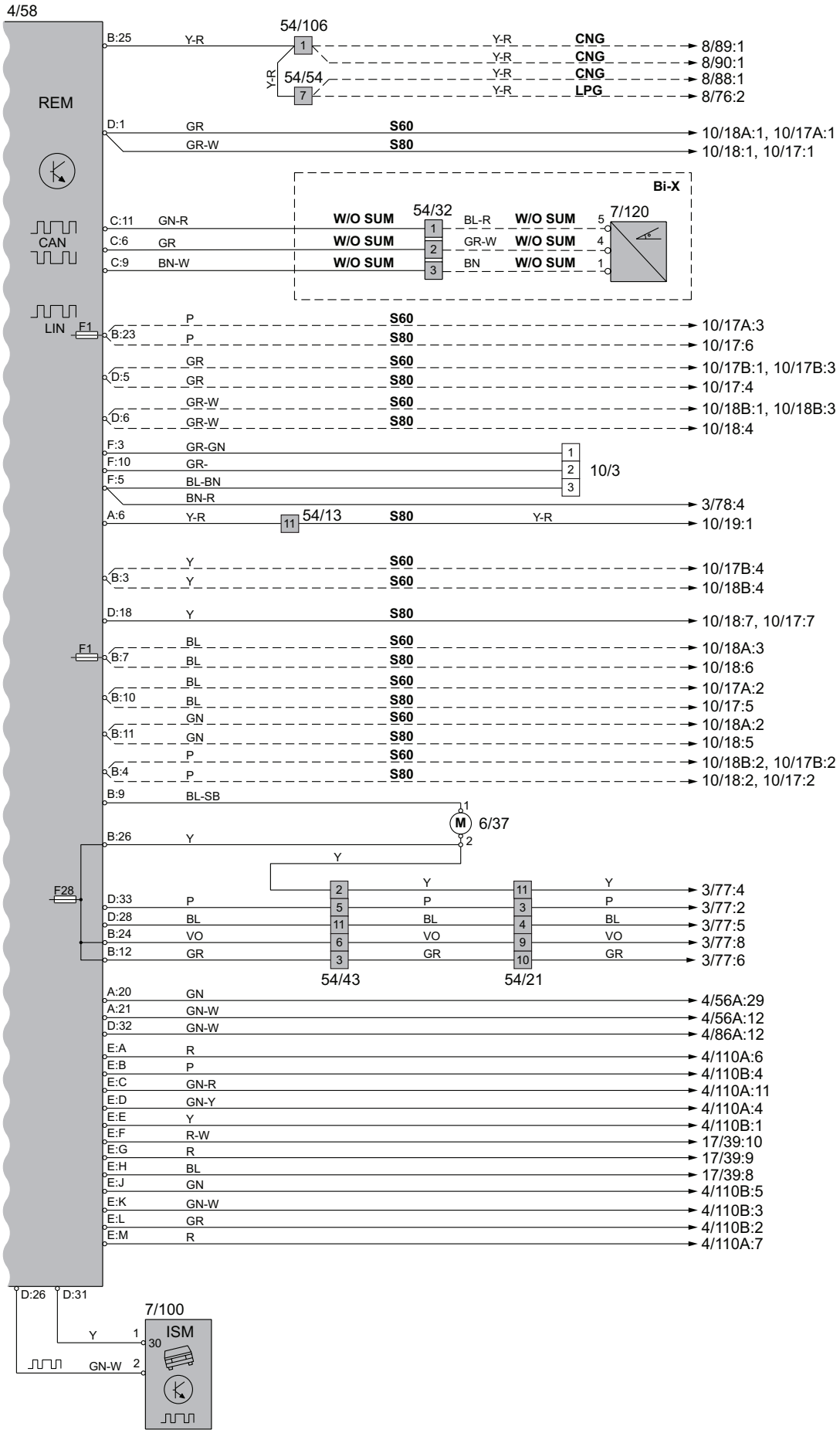
Control modules
Central Electronic Module (CEM) 2:2



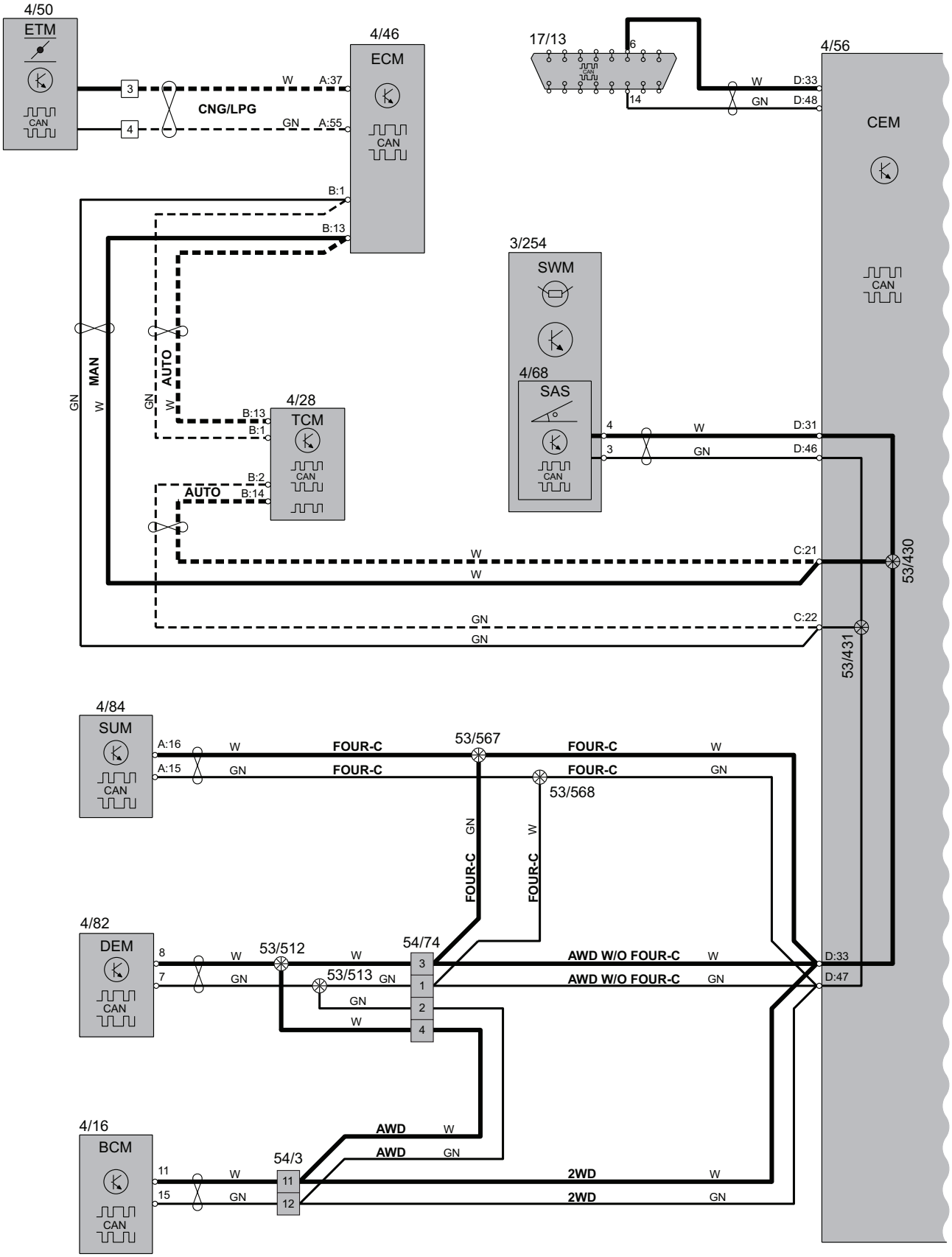
Control modules
Rear Electronic Module (REM) 1:2



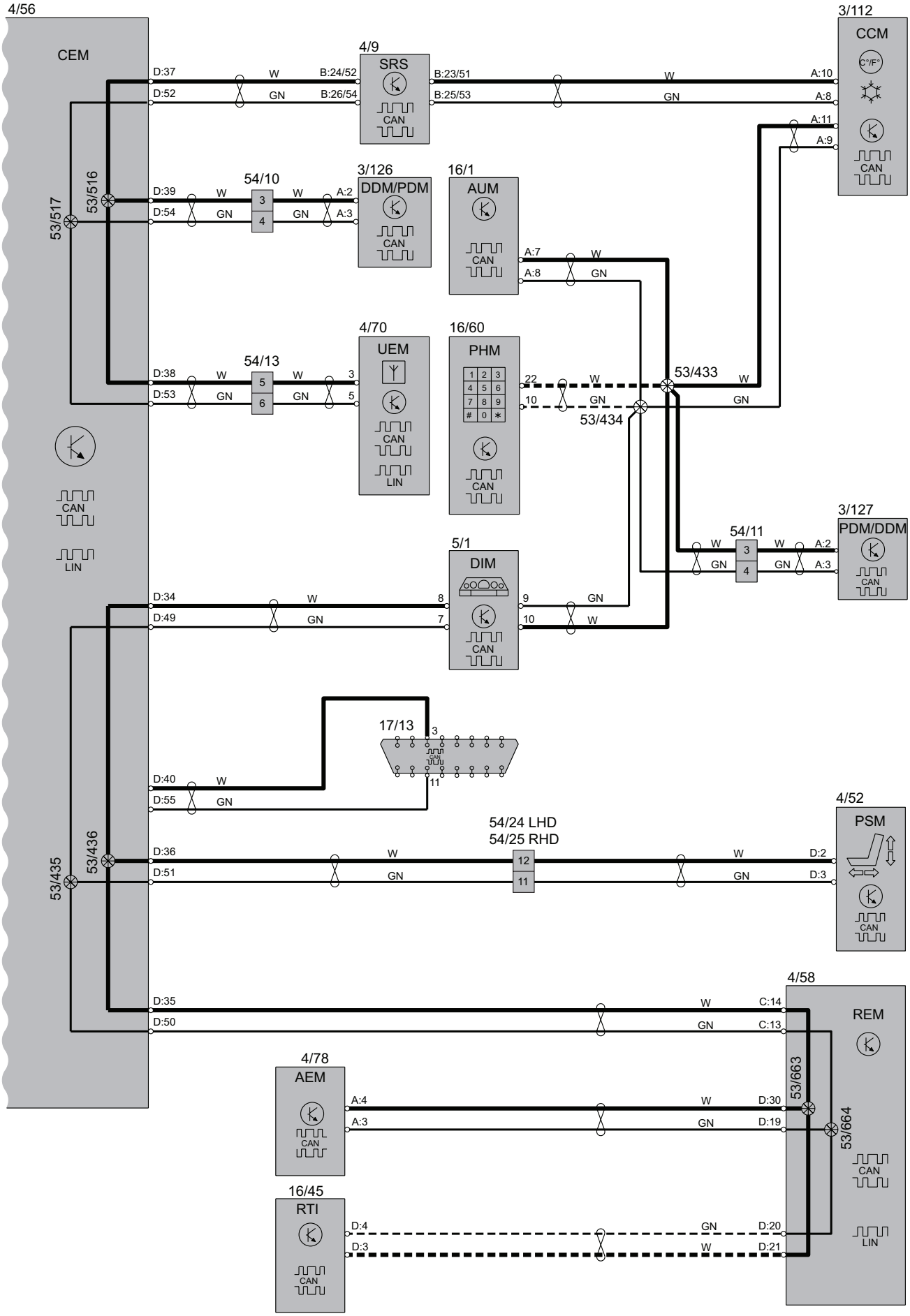
Control modules
Rear Electronic Module (REM) 2:2



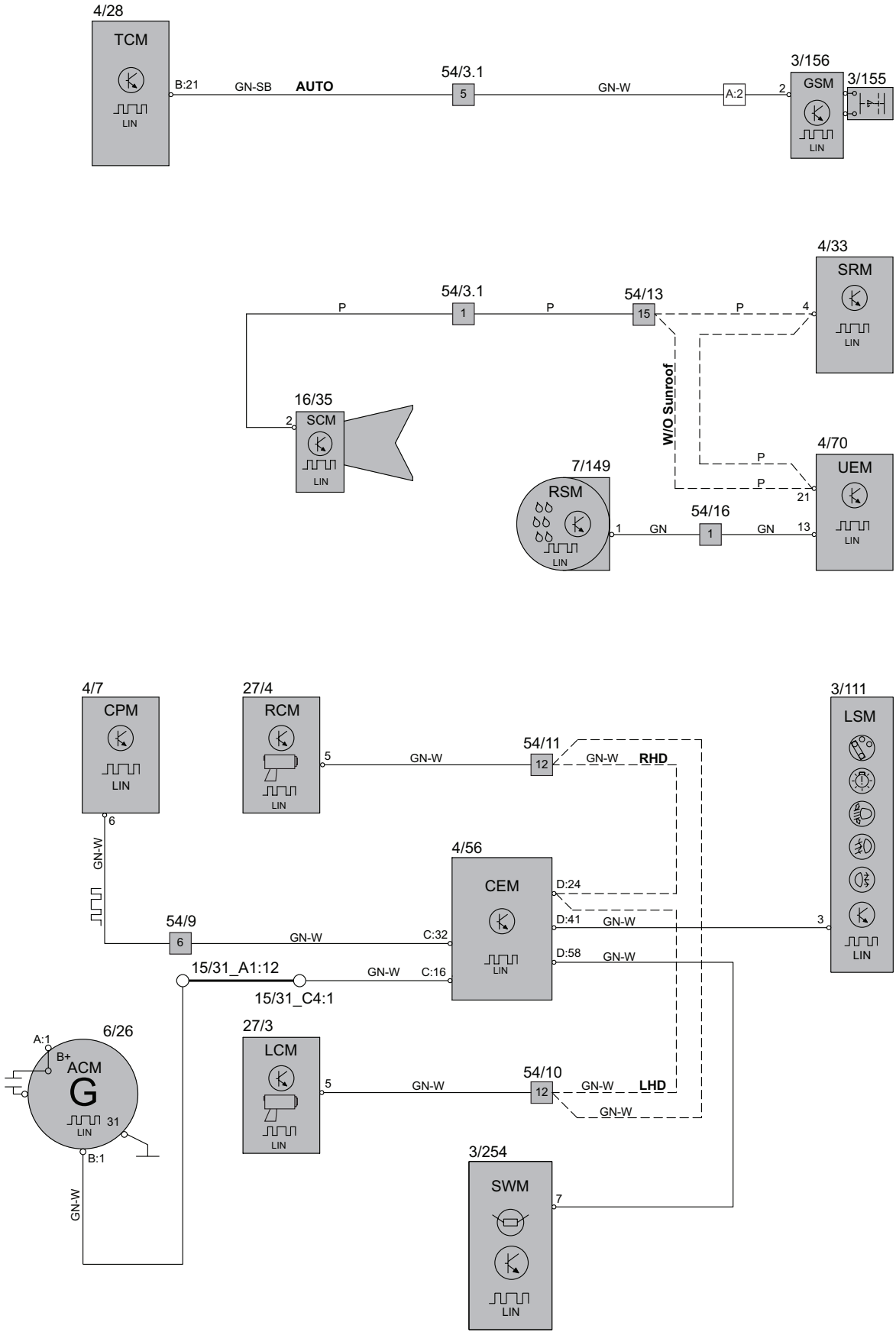
Control modules
High speed CAN data communication



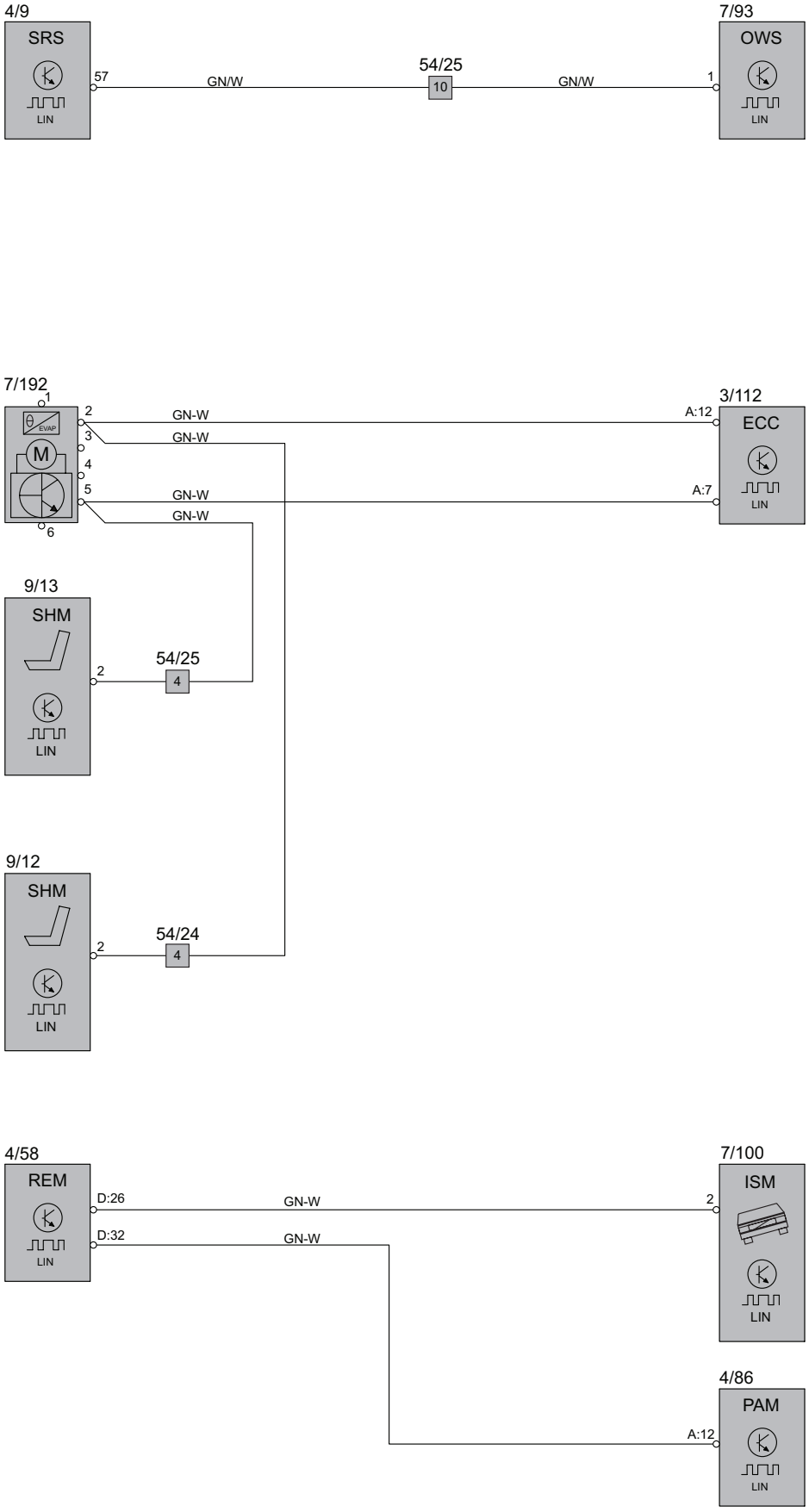
Control modules
Low speed CAN data communication



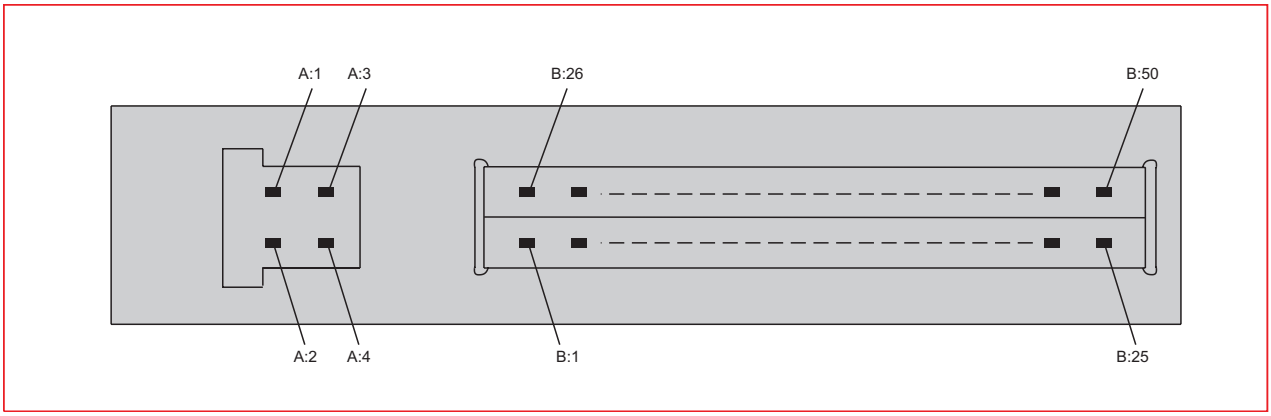
Control modules
LIN data communication 1:2



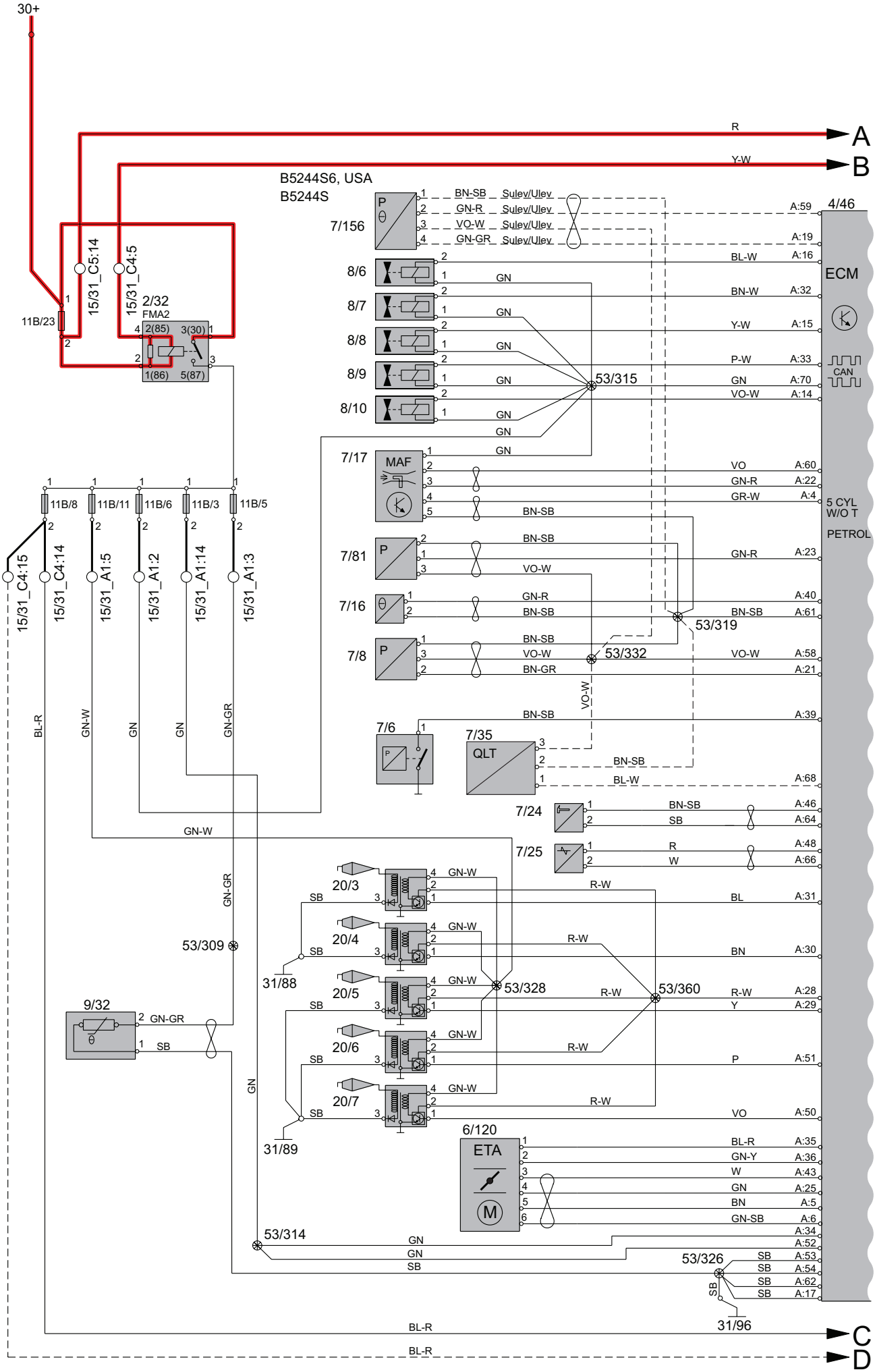
Control modules
LIN data communication 2:2



Control modules
Accessory Electronic Module (AEM)



Pos	Function	Type
A:1	Electrical distribution	Ground
A:2	Electrical distribution	Feed
A:3	CAN communication	Input/output signals
A:4	CAN communication	Input/output signals
B:1	Remote heater start, minicall	Feed
B:2	Remote heater start, minicall	Ground
B:3	Remote heater start, minicall Remote heater start, radio signal	Input signal
B:5	Engine heater	Steering, alternating current feed
B:6	Parking Assistance	Feed
B:7	Parking Assistance	Input signal
B:8	Parking Assistance	Ground
B:11	Handsfree, audio disengage	Input signal
B:12	Audio disengage	Output signal
B:13	Rheostat, audio	Output signal
B:14	Speed signal, audio Speed signal, RTI Japan	Output signal
B:15	Alarm signal	Output signal
B:16	Alarm signal	Output signal
B:30	Antenna amplifier, audio	Feed Output signal
B:33	Alarm signal RTI Japan	Output signal Steering, X-feed
B:34	Alarm signal Reverse gear signal, RTI Japan	Output signal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B5244S6, USA
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FMA2
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15/31_C4:5
11B/8
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11B/5
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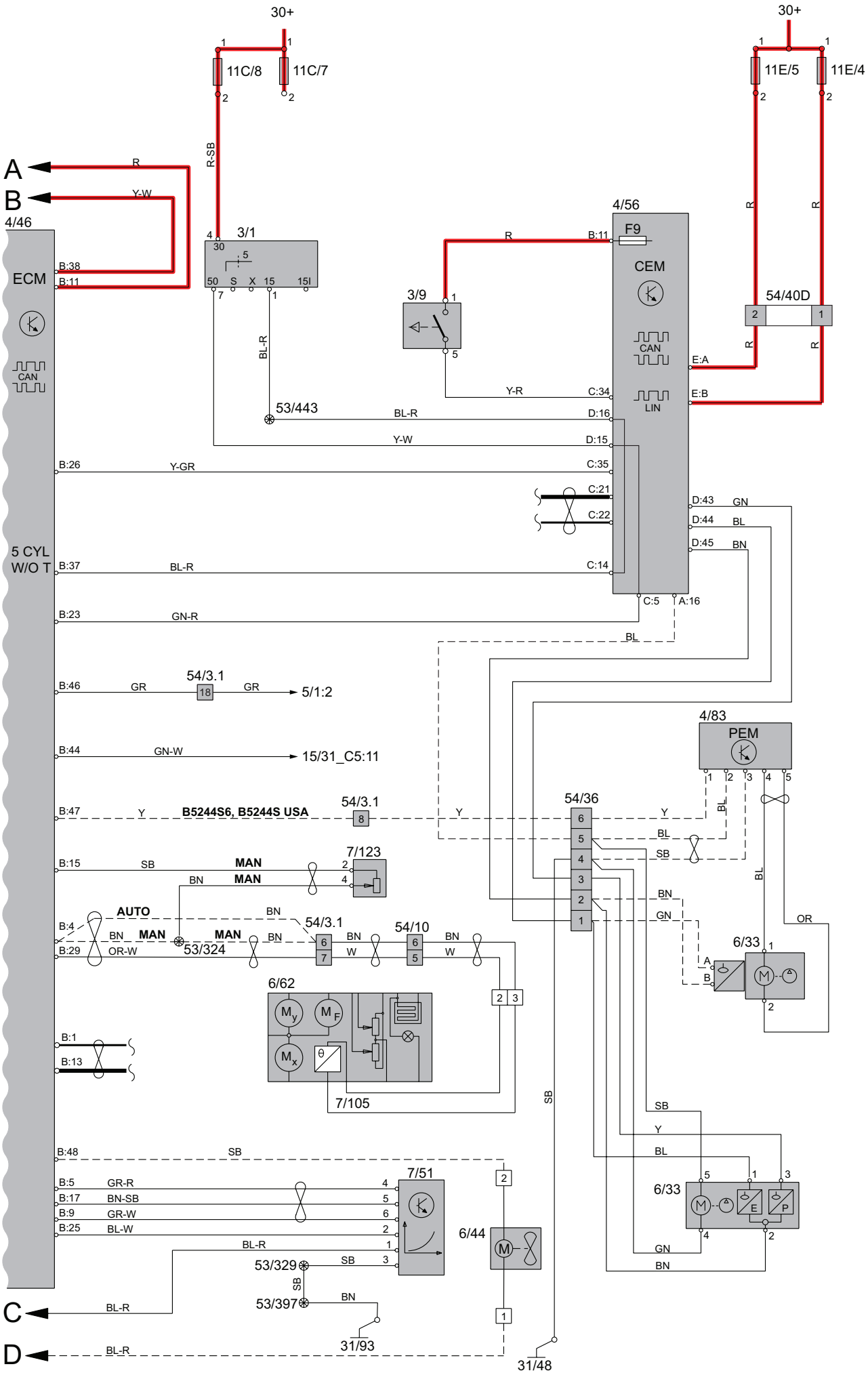
30+
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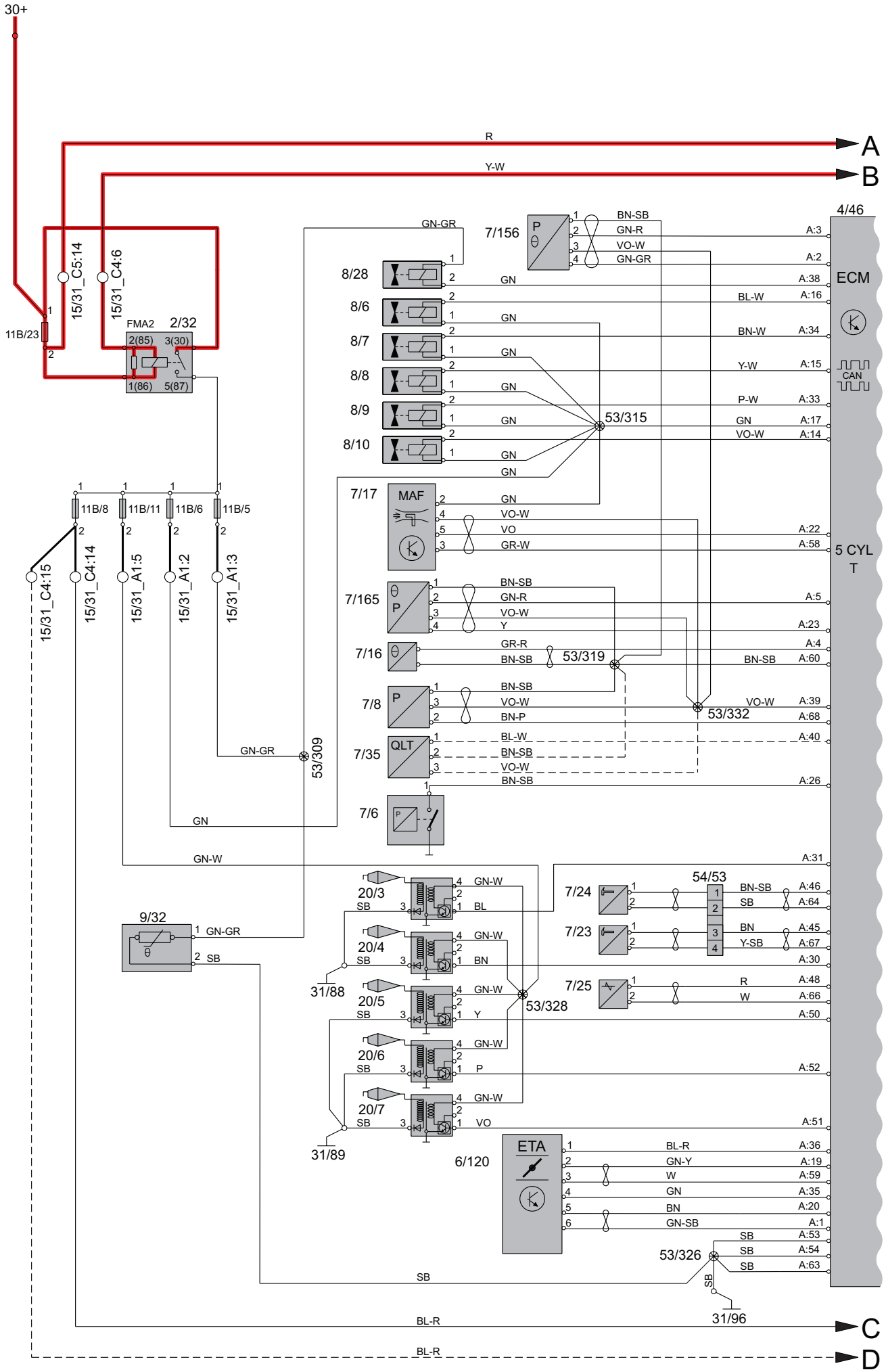
41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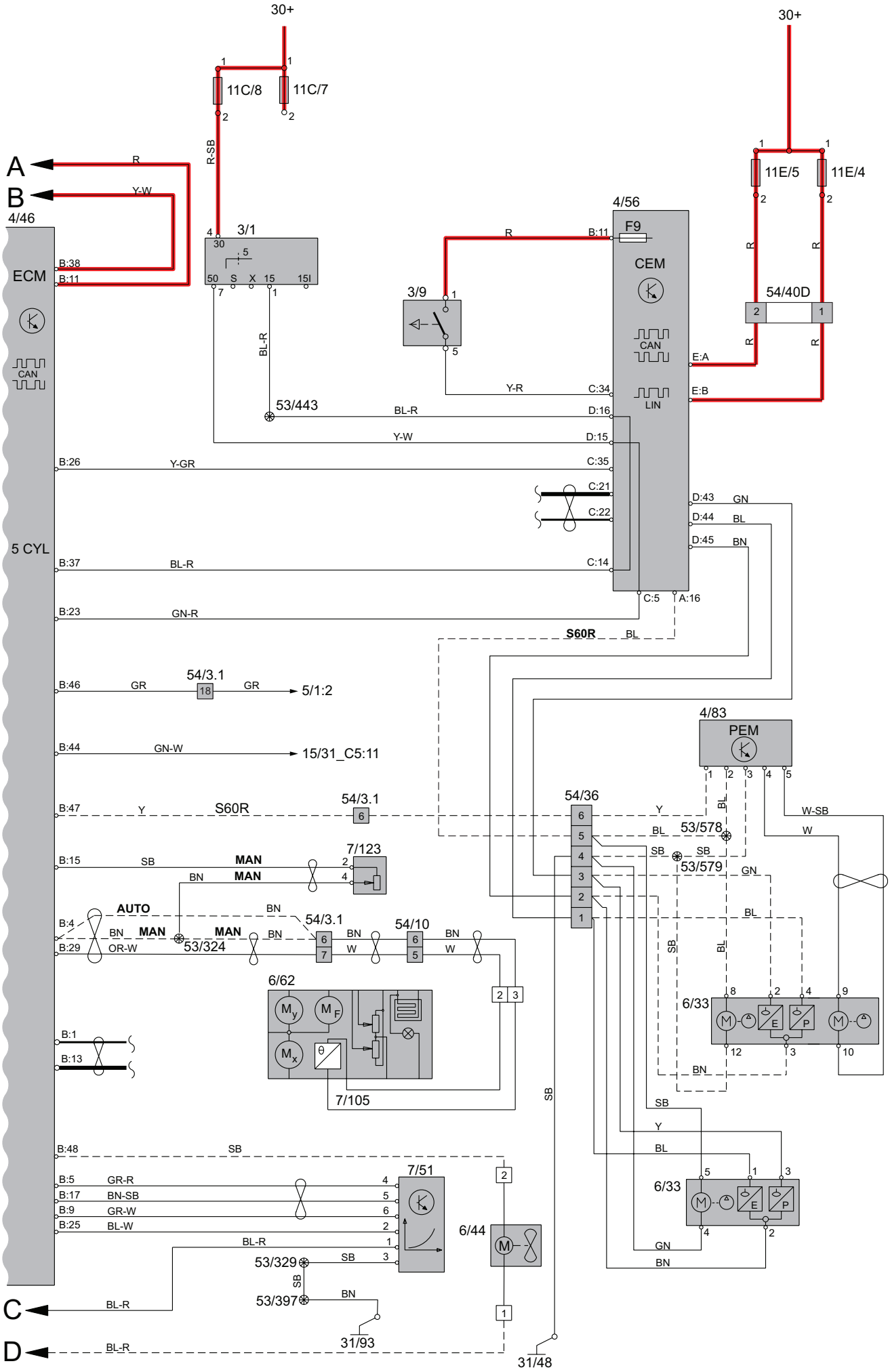
30+
11C/8
11C/7
R-SB
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ECM
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CAN
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B:26
Y-GR
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BL-R
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GN-R
S60R
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5/1:2
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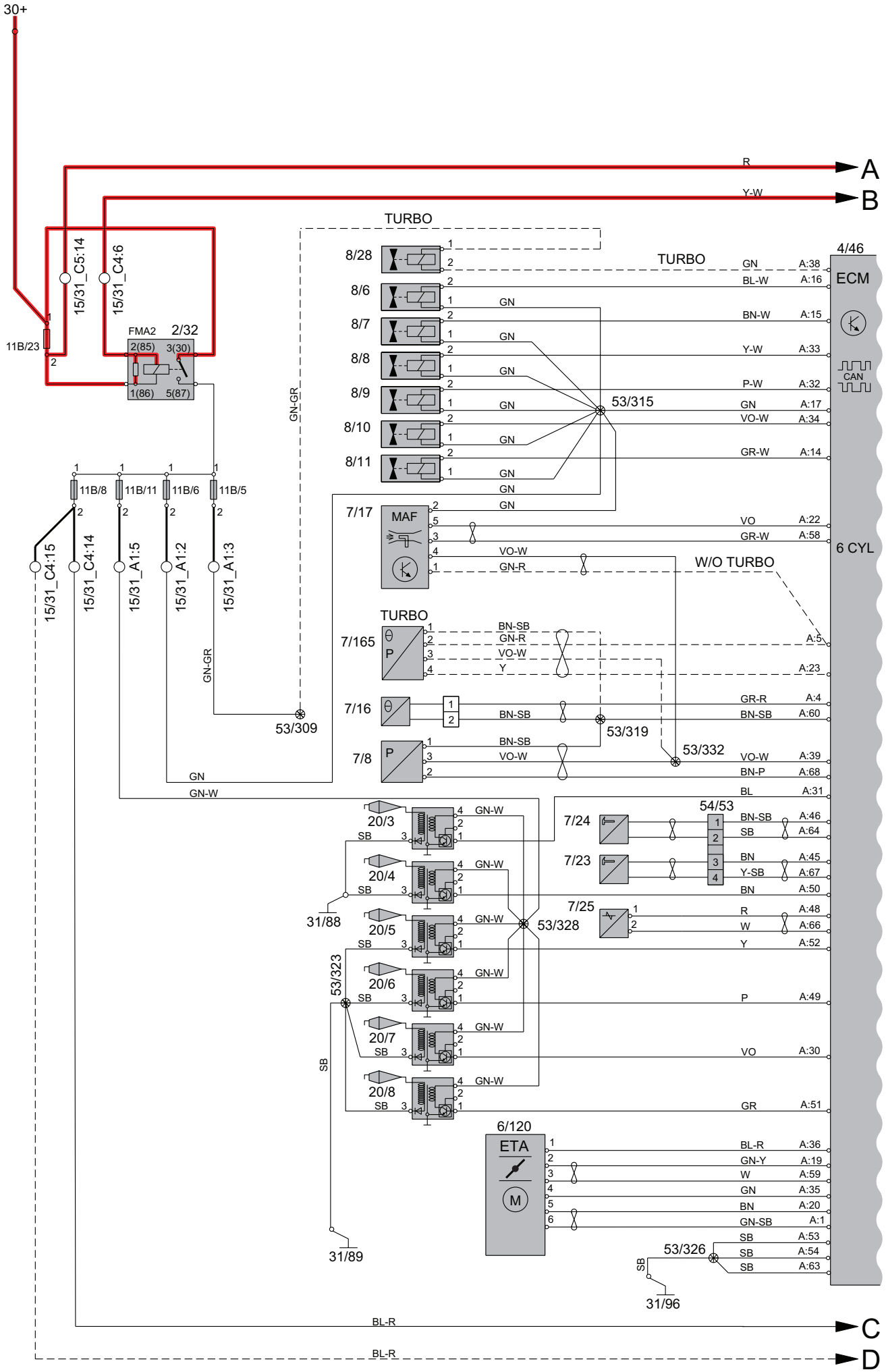
TP3976201 S60/S60R/S80 2005
43


30+
R
A
Y-W
B
TURBO
8/28
8/6
8/7
8/8
8/9
8/10
8/11
TURBO
GN
BL-W
BN-W
Y-W
P-W
GN
VO-W
GR-W
A:38
A:16
A:15
A:33
A:32
A:17
A:34
A:14
4/46
ECM
CAN
6 CYL
53/315
15/31_C5:14
15/31_C4:6
11B/23
FMA2
2/32
2(85)
3(30)
1(86)
5(87)
GN-GR
11B/8
11B/11
11B/6
11B/5
15/31_C4:15
15/31_C4:14
15/31_A1:5
15/31_A1:2
15/31_A1:3
7/17
MAF
VO
GR-W
VO-W
GN-R
A:22
A:58
W/O TURBO
TURBO
7/165
BN-SB
GN-R
VO-W
Y
A:5
A:23
7/16
BN-SB
GR-R
BN-SB
A:4
A:60
53/319
53/309
7/8
BN-SB
VO-W
53/332
VO-W
BN-P
BL
A:39
A:68
A:31
GN
GN-W
54/53
7/24
7/23
BN-SB
SB
BN
Y-SB
BN
A:46
A:64
A:45
A:67
A:50
20/3
20/4
20/5
20/6
20/7
20/8
GN-W
SB
31/88
7/25
53/328
R
W
Y
A:48
A:66
A:52
53/323
P
VO
GR
A:49
A:30
A:51
6/120
ETA
M
BL-R
GN-Y
W
GN
BN
GN-SB
SB
A:36
A:19
A:59
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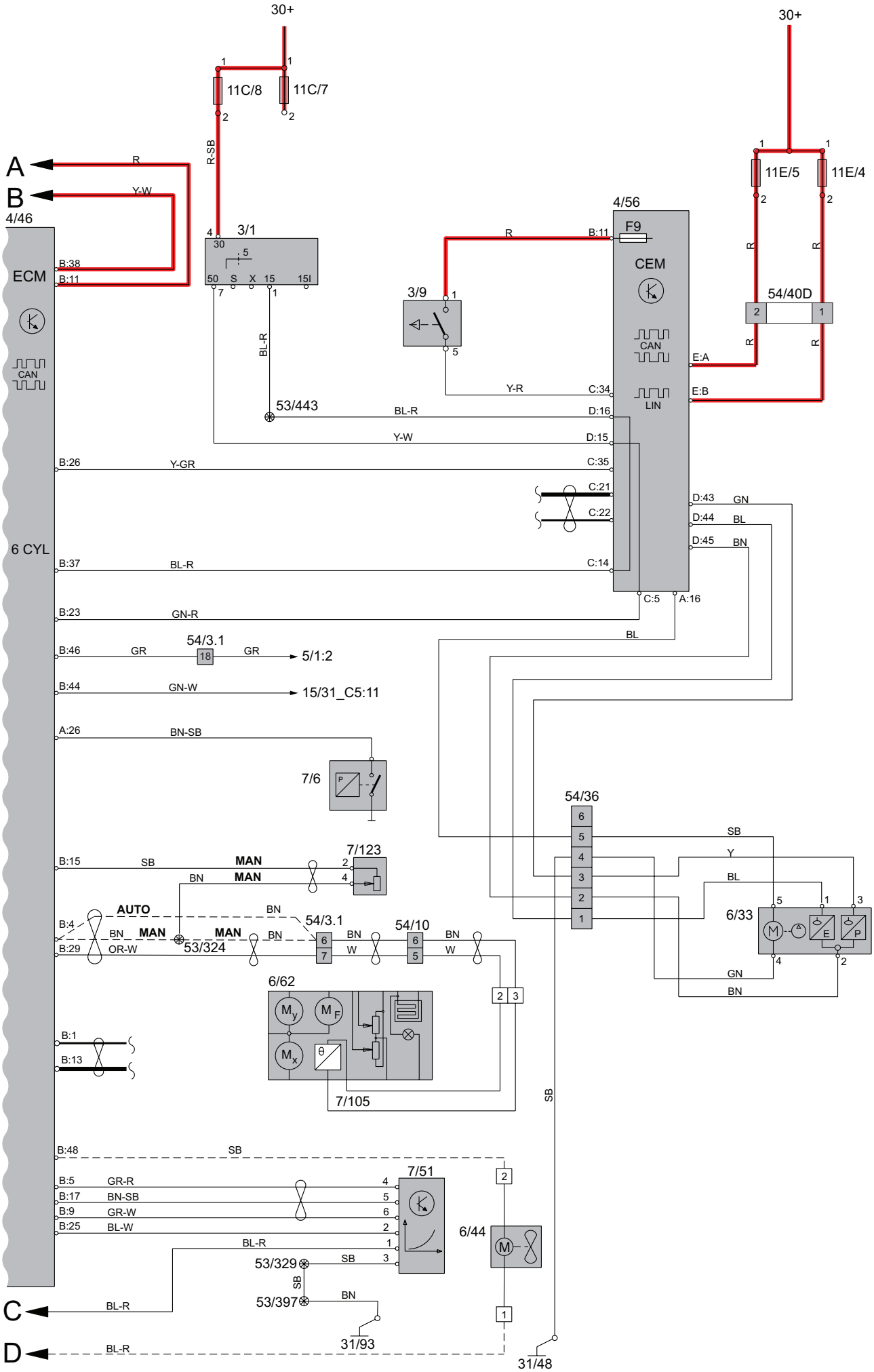
31/89
31/96
BL-R
C
D


30+
11C/8
11C/7
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A
B
R
Y-W
4/46
ECM
B:38
B:11
CAN
3/1
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5
50
S
X
15
15I
7
1
BL-R
53/443
3/9
R
B:11
4/56
F9
CEM
CAN
LIN
E:A
E:B
Y-R
C:34
BL-R
D:16
Y-W
D:15
30+
11E/5
11E/4
54/40D
B:26
Y-GR
C:35
C:21
C:22
D:43
GN
D:44
BL
D:45
BN
6 CYL
B:37
BL-R
C:14
C:5
A:16
B:23
GN-R
BL
B:46
GR
54/3.1
18
GR
5/1:2
B:44
GN-W
15/31_C5:11
A:26
BN-SB
7/6
54/36
7/123
B:15
SB
MAN
BN
MAN
AUTO
BN
B:4
BN
MAN
MAN
BN
54/3.1
54/10
B:29
OR-W
53/324
W
W
6/62
SB
Y
BL
6/33
GN
BN
B:1
B:13
7/105
SB
B:48
SB
7/51
B:5
GR-R
B:17
BN-SB
B:9
GR-W
B:25
BL-W
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SB
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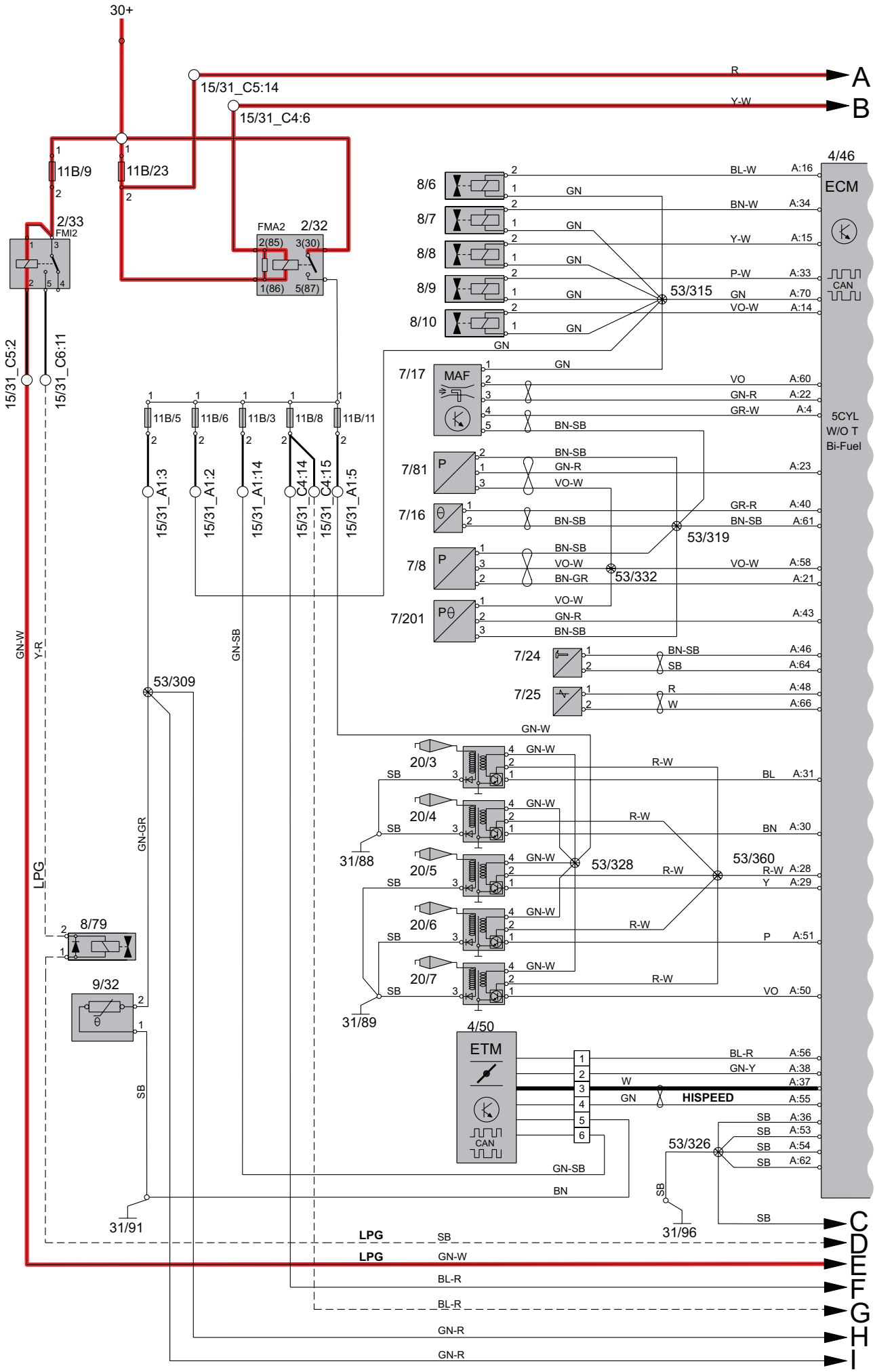
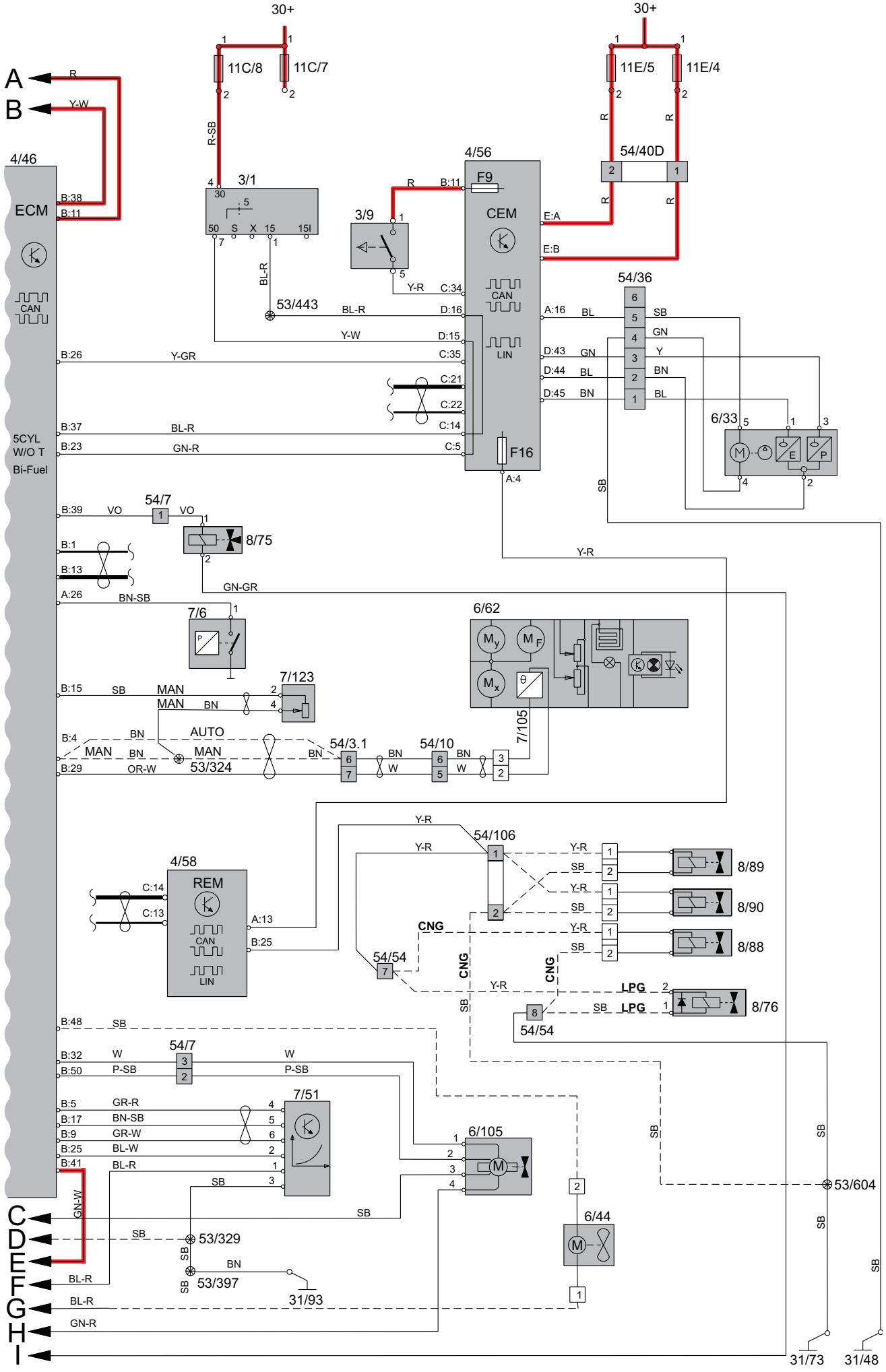
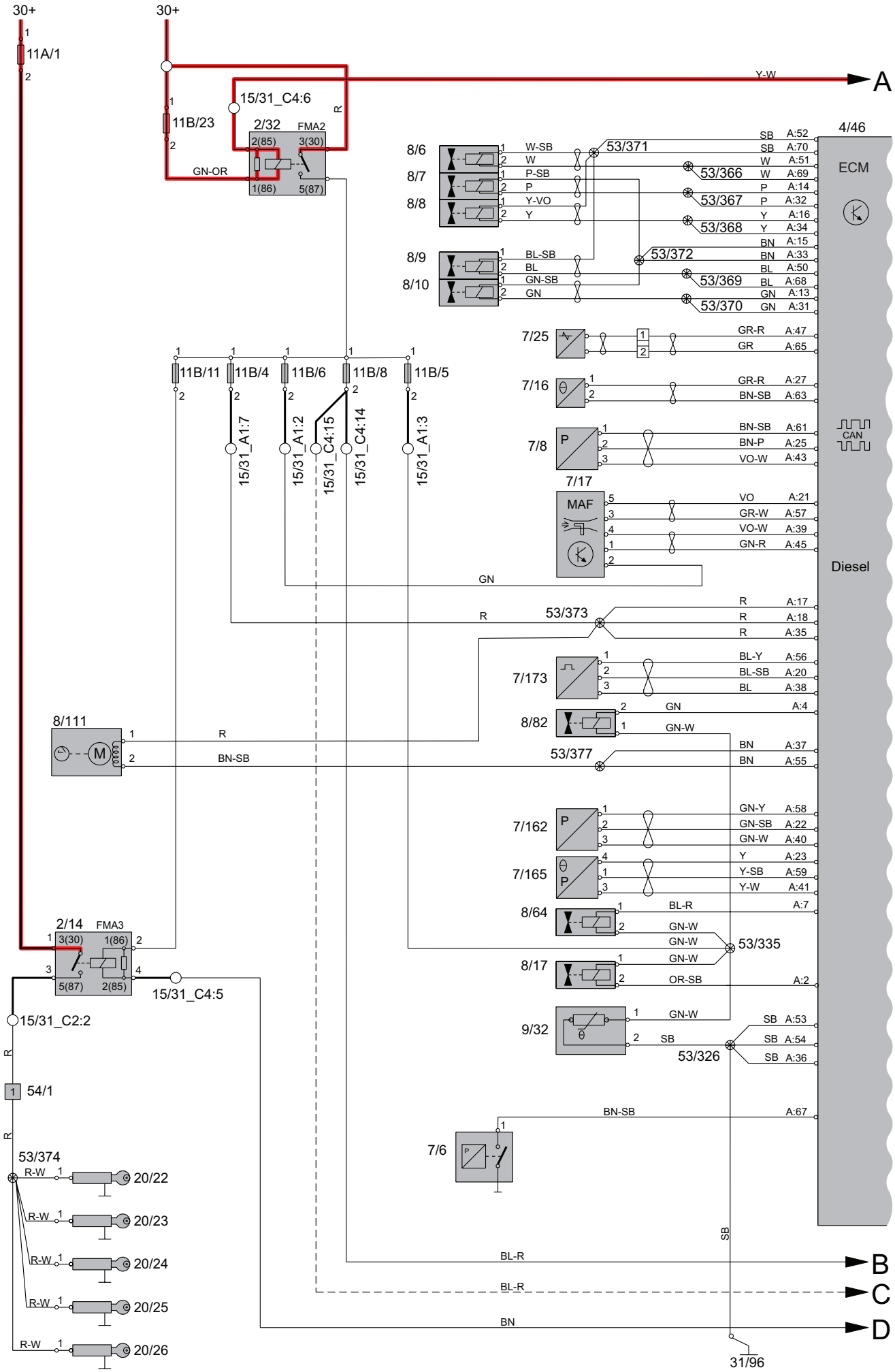
53/397
BN
31/93
6/44
C
BL-R
D
BL-R
31/48

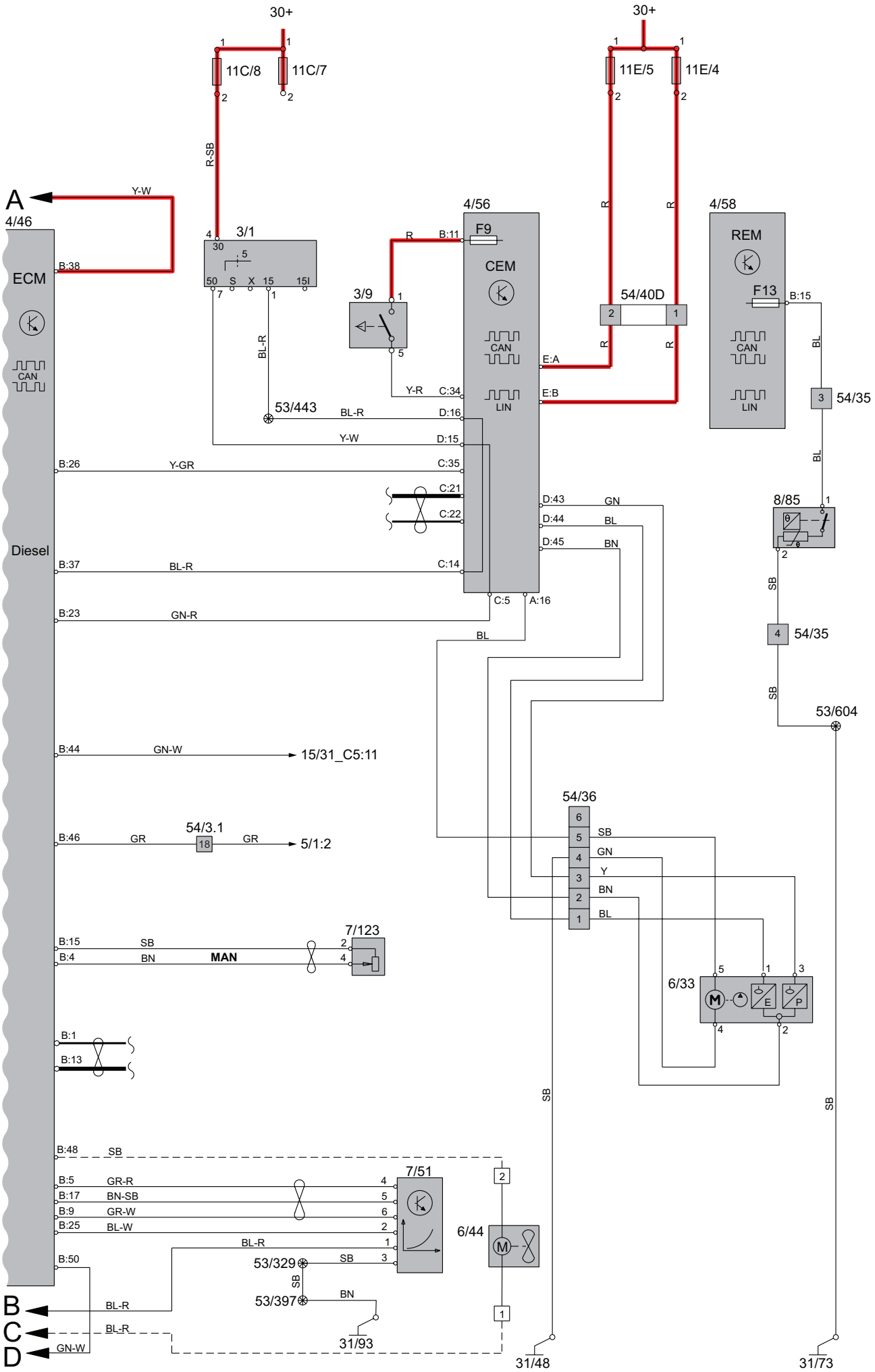

30+
15/31_C5:14
15/31_C4:6
11B/9
11B/23
2/33
FMI2
FMA2
2/32
2(85)
3(30)
1(86)
5(87)
15/31_C5:2
15/31_C6:11
11B/5
11B/6
11B/3
11B/8
11B/11
15/31_A1:3
15/31_A1:2
15/31_A1:14
15/31_C4:14
15/31_C4:15
15/31_A1:5
GN-W
Y-R
GN-SB
GN-GR
LPG
53/309
8/79
9/32
SB
31/91
8/6
8/7
8/8
8/9
8/10
GN
53/315
7/17
MAF
7/81
P
7/16
7/8
53/319
53/332
7/201
7/24
7/25
BN-SB
GR-R
VO-W
BN-GR
GR-W
20/3
20/4
20/5
20/6
20/7
R-W
31/88
31/89
53/328
53/360
4/50
ETM
CAN
HISPEED
53/326
31/96
4/46
ECM
5CYL
W/O T
Bi-Fuel
BL-W
BN-W
Y-W
P-W
VO-W
VO
GN-R
BL-R
A:16
A:34
A:15
A:33
A:70
A:14
A:60
A:22
A:4
A:23
A:40
A:61
A:58
A:21
A:43
A:46
A:64
A:48
A:66
A:31
A:30
A:28
A:29
A:51
A:50
A:56
A:38
A:37
A:55
A:36
A:53
A:54
A:62
A
B
C
D
E
F
G
H
I

Group 23 Fuel system
Engine management system, Bi-fuel 2:2

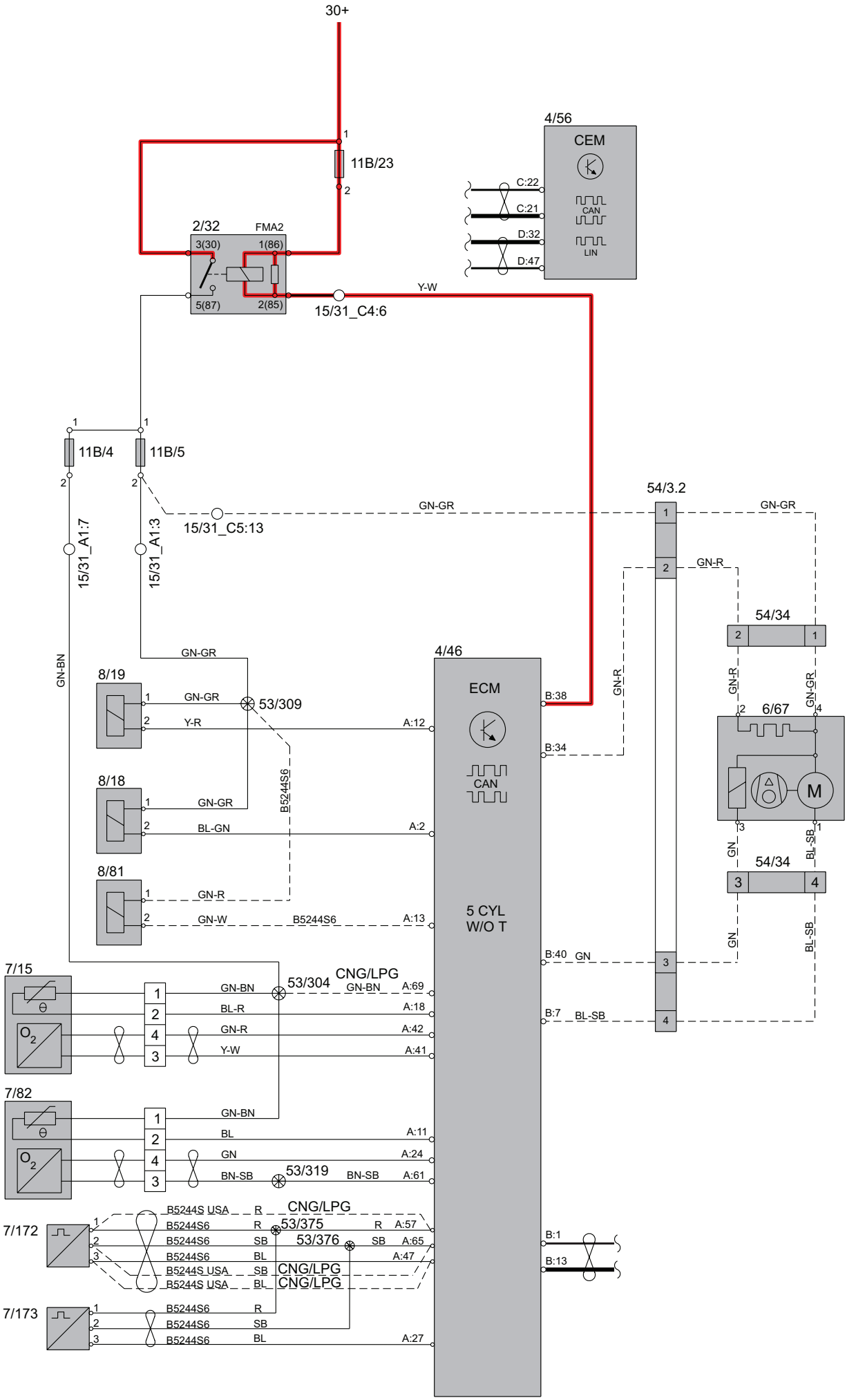



30+
11A/1
30+
11B/23
15/31_C4:6
2/32
FMA2
2(85)
3(30)
1(86)
5(87)
GN-OR
R
Y-W
A
4/46
ECM
CAN
Diesel
8/6
8/7
8/8
8/9
8/10
W-SB
W
P-SB
P
Y-VO
Y
BL-SB
BL
GN-SB
GN
53/371
53/372
53/366
53/367
53/368
53/369
53/370
SB A:52
SB A:70
W A:51
W A:69
P A:14
P A:32
Y A:16
Y A:34
BN A:15
BN A:33
BL A:50
BL A:68
GN A:13
GN A:31
7/25
GR-R A:47
GR A:65
7/16
GR-R A:27
BN-SB A:63
7/8
BN-SB A:61
BN-P A:25
VO-W A:43
7/17
MAF
VO A:21
GR-W A:57
VO-W A:39
GN-R A:45
11B/11
11B/4
11B/6
11B/8
11B/5
15/31_A1:7
15/31_A1:2
15/31_C4:15
15/31_C4:14
15/31_A1:3
GN
R
53/373
R A:17
R A:18
R A:35
7/173
BL-Y A:56
BL-SB A:20
BL A:38
8/82
GN A:4
GN-W
8/111
M
R
BN-SB
53/377
BN A:37
BN A:55
7/162
GN-Y A:58
GN-SB A:22
GN-W A:40
7/165
Y A:23
Y-SB A:59
Y-W A:41
8/64
BL-R A:7
GN-W
53/335
8/17
GN-W
OR-SB A:2
9/32
GN-W
SB
53/326
SB A:53
SB A:54
SB A:36
BN-SB A:67
7/6
2/14
FMA3
3(30)
1(86)
5(87)
2(85)
15/31_C4:5
15/31_C2:2
54/1
53/374
R-W
20/22
20/23
20/24
20/25
20/26
BL-R
B
BL-R
C
BN
D
SB
31/96

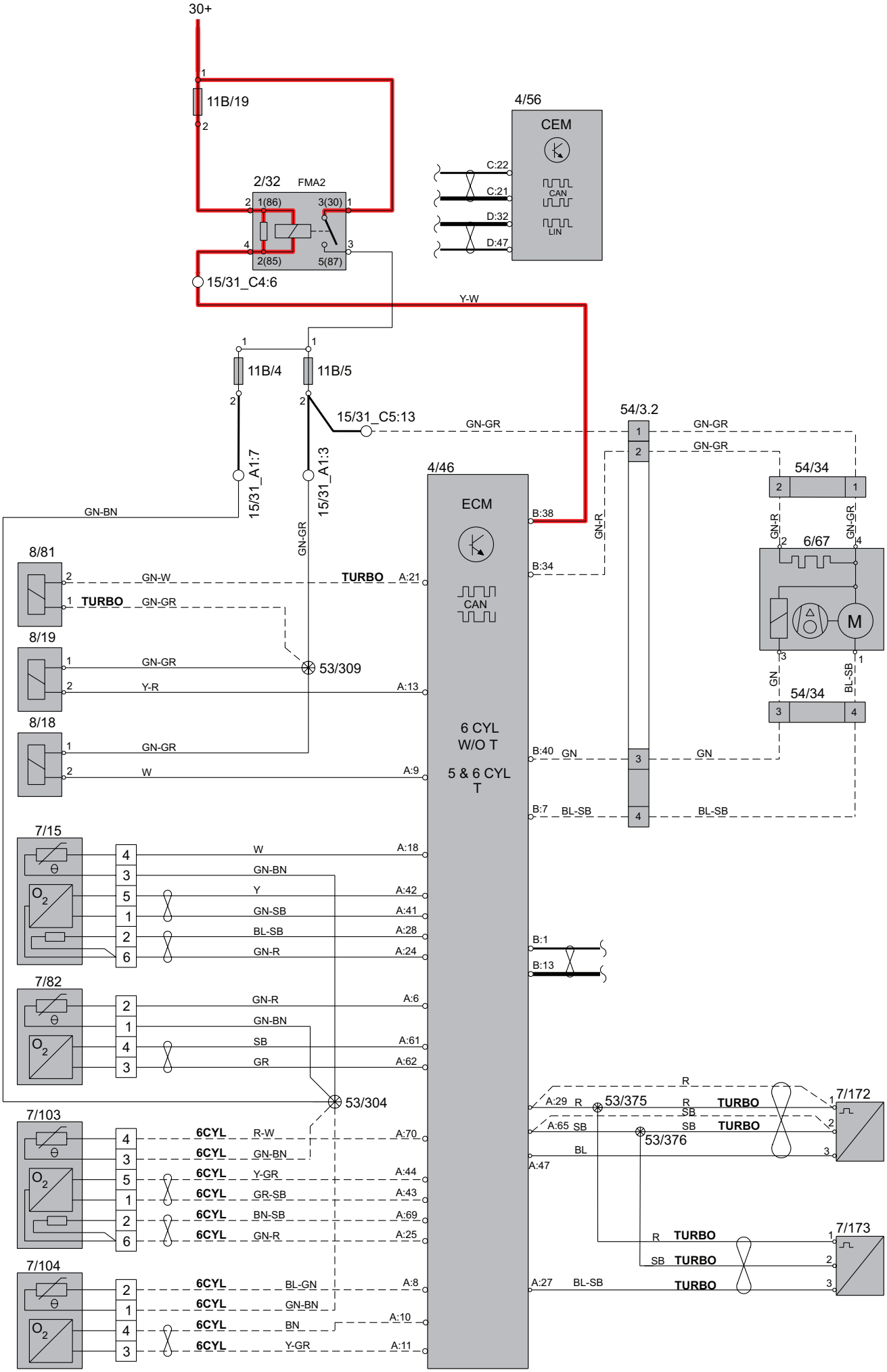
Group 23 Fuel system
Engine management system, Diesel 2:2

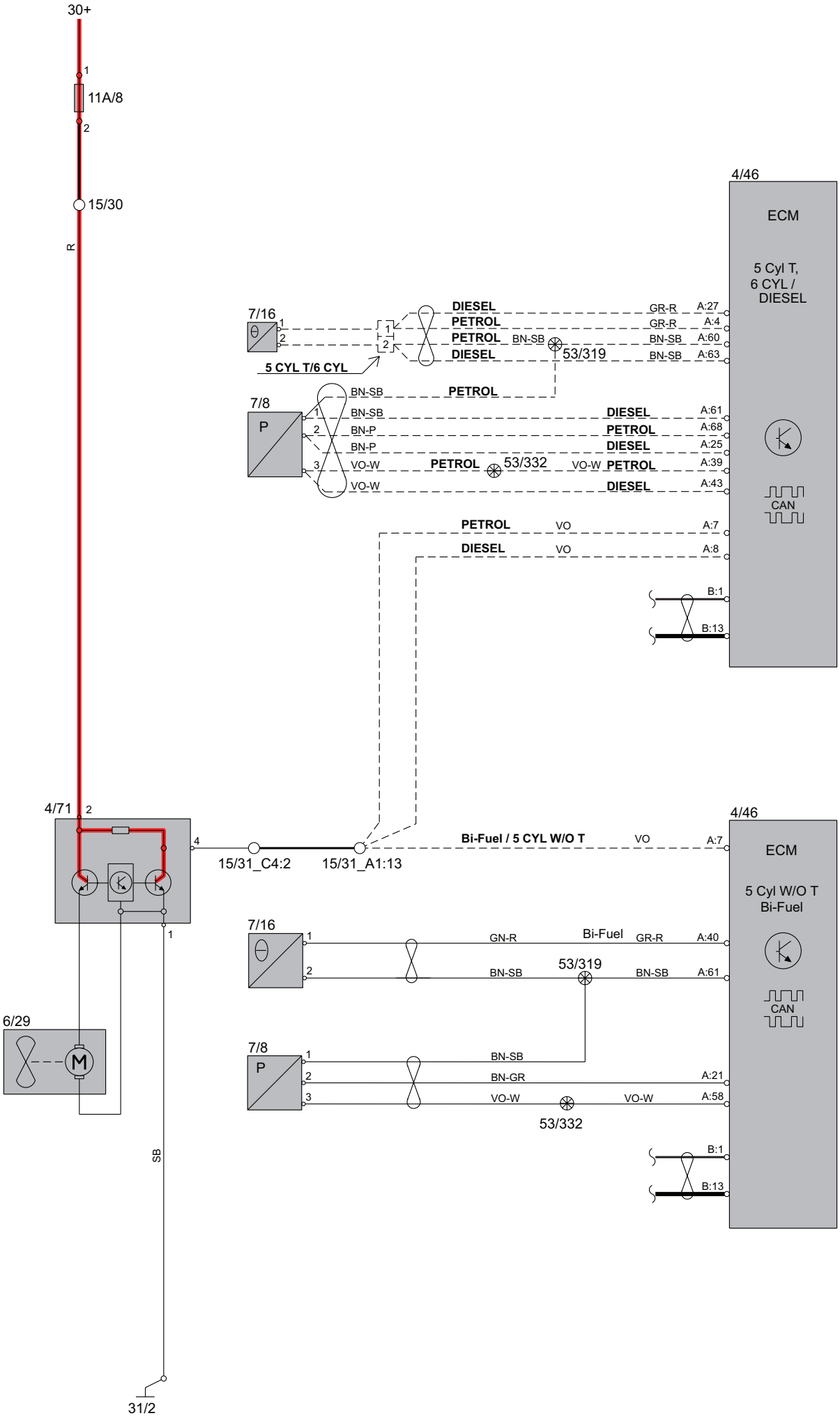


Group 23 Fuel system
Emission control, 5-cyl



Emission control, 5-cyl & 6-cyl Turbo




30+
1
11A/8
2
15/30
R
4/46
ECM
5 Cyl T,
6 CYL /
DIESEL
7/16
1
2
1
2
DIESEL
PETROL
PETROL
DIESEL
GR-R
GR-R
BN-SB
BN-SB
A:27
A:4
A:60
A:63
53/319
5 CYL T/6 CYL
7/8
P
BN-SB
PETROL
BN-SB
DIESEL
BN-P
PETROL
BN-P
DIESEL
VO-W
PETROL
53/332
VO-W
PETROL
VO-W
DIESEL
A:61
A:68
A:25
A:39
A:43
CAN
PETROL
VO
A:7
DIESEL
VO
A:8
B:1
B:13
4/71
2
4
1
15/31_C4:2
15/31_A1:13
Bi-Fuel / 5 CYL W/O T
VO
A:7
4/46
ECM
5 Cyl W/O T
Bi-Fuel
CAN
7/16
1
2
GN-R
Bi-Fuel
GR-R
A:40
BN-SB
53/319
BN-SB
A:61
6/29
M
7/8
P
1
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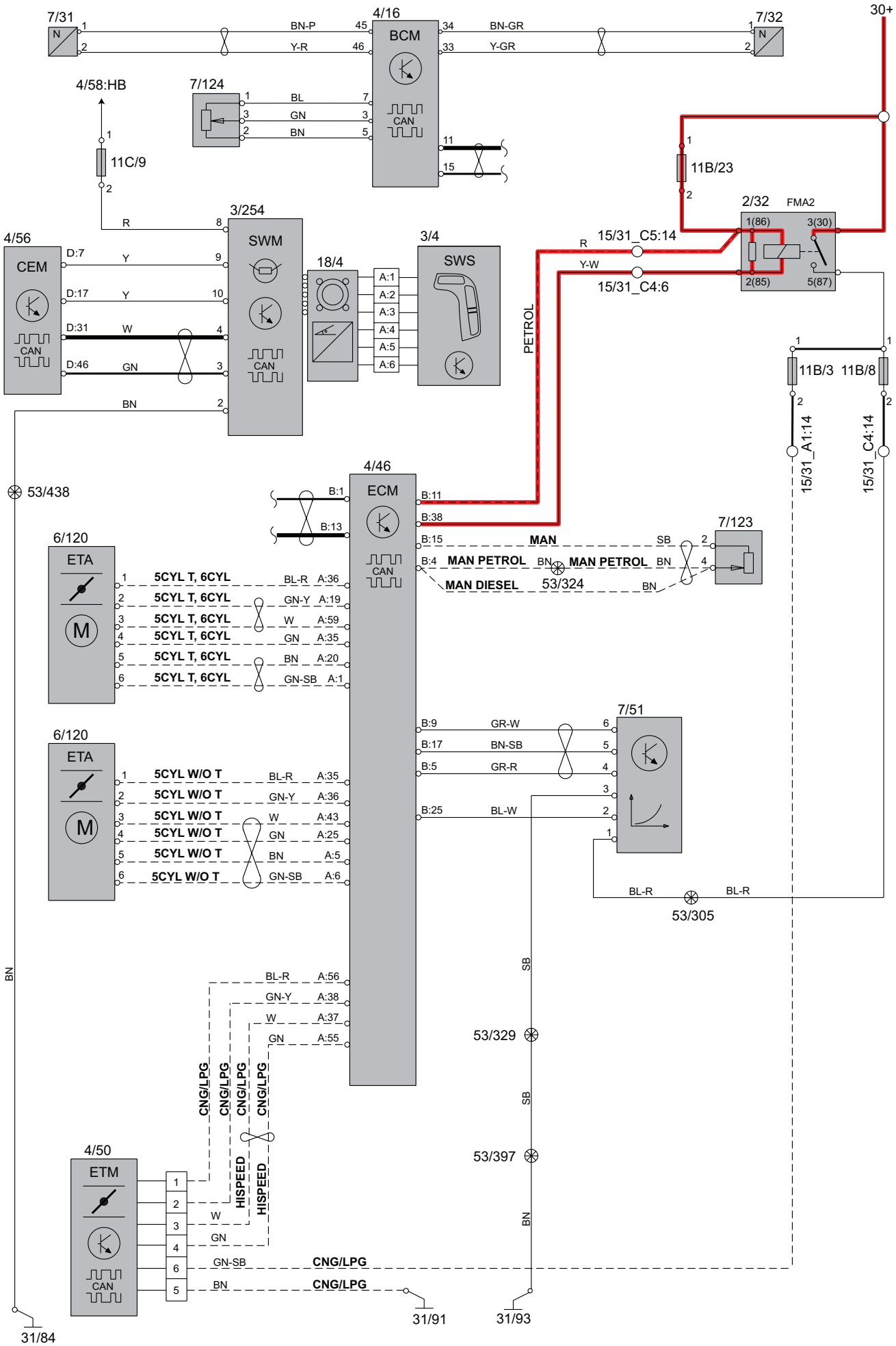
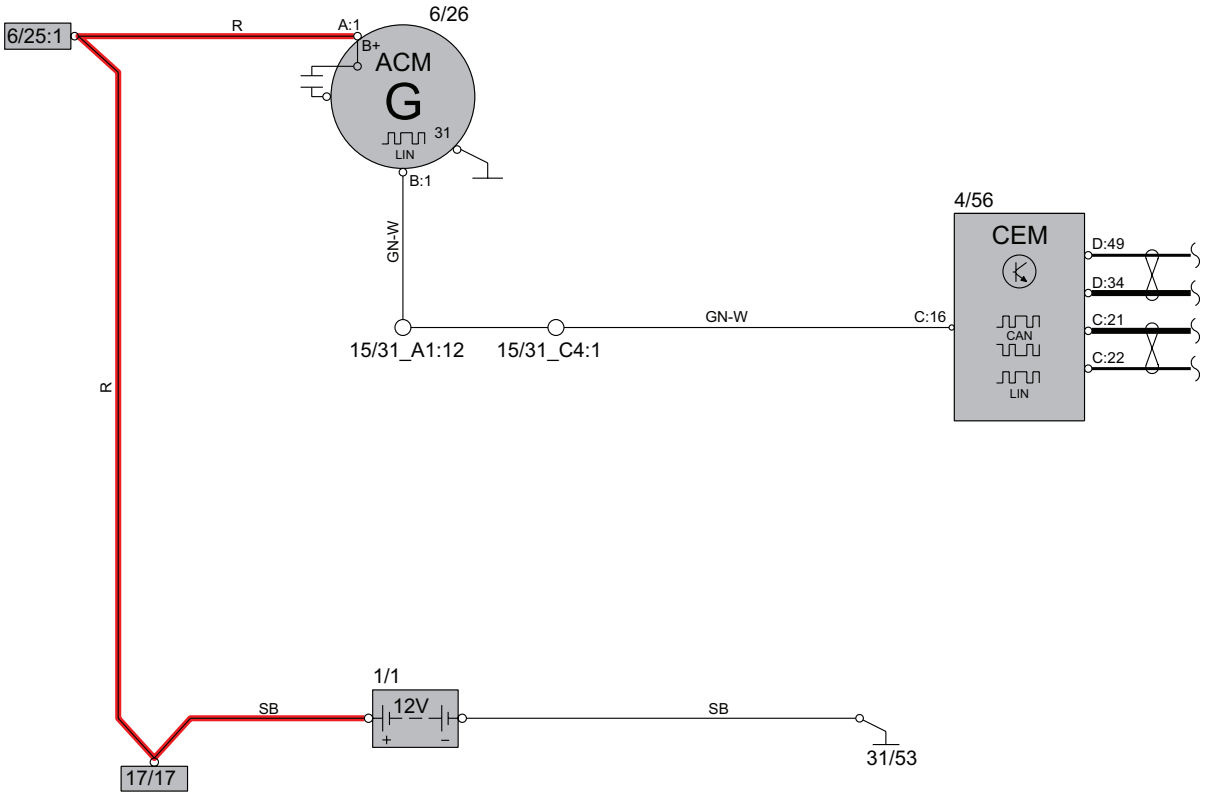
BN-GR
VO-W
A:21
VO-W
A:58
53/332
B:1
B:13
SB
31/2


7/31
4/16
BCM
7/32
30+
BN-P
Y-R
BN-GR
Y-GR
4/58:HB
7/124
11C/9
11B/23
2/32
FMA2
1(86)
3(30)
2(85)
5(87)
15/31_C5:14
15/31_C4:6
R
Y-W
PETROL
3/254
SWM
4/56
CEM
3/4
SWS
18/4
11B/3
11B/8
15/31_A1:14
15/31_C4:14
53/438
4/46
ECM
7/123
MAN
MAN PETROL
MAN DIESEL
53/324
6/120
ETA
5CYL T, 6CYL
5CYL W/O T
7/51
53/305
BL-R
BL-R
SB
53/329
SB
53/397
BN
CNG/LPG
HISPEED
4/50
ETM
GN-SB
BN
31/84
31/91
31/93


6/25:1
R
A:1
6/26
B+
ACM
G
31
LIN
B:1
GN-W
4/56
CEM
D:49
D:34
C:21
C:22
GN-W
C:16
CAN
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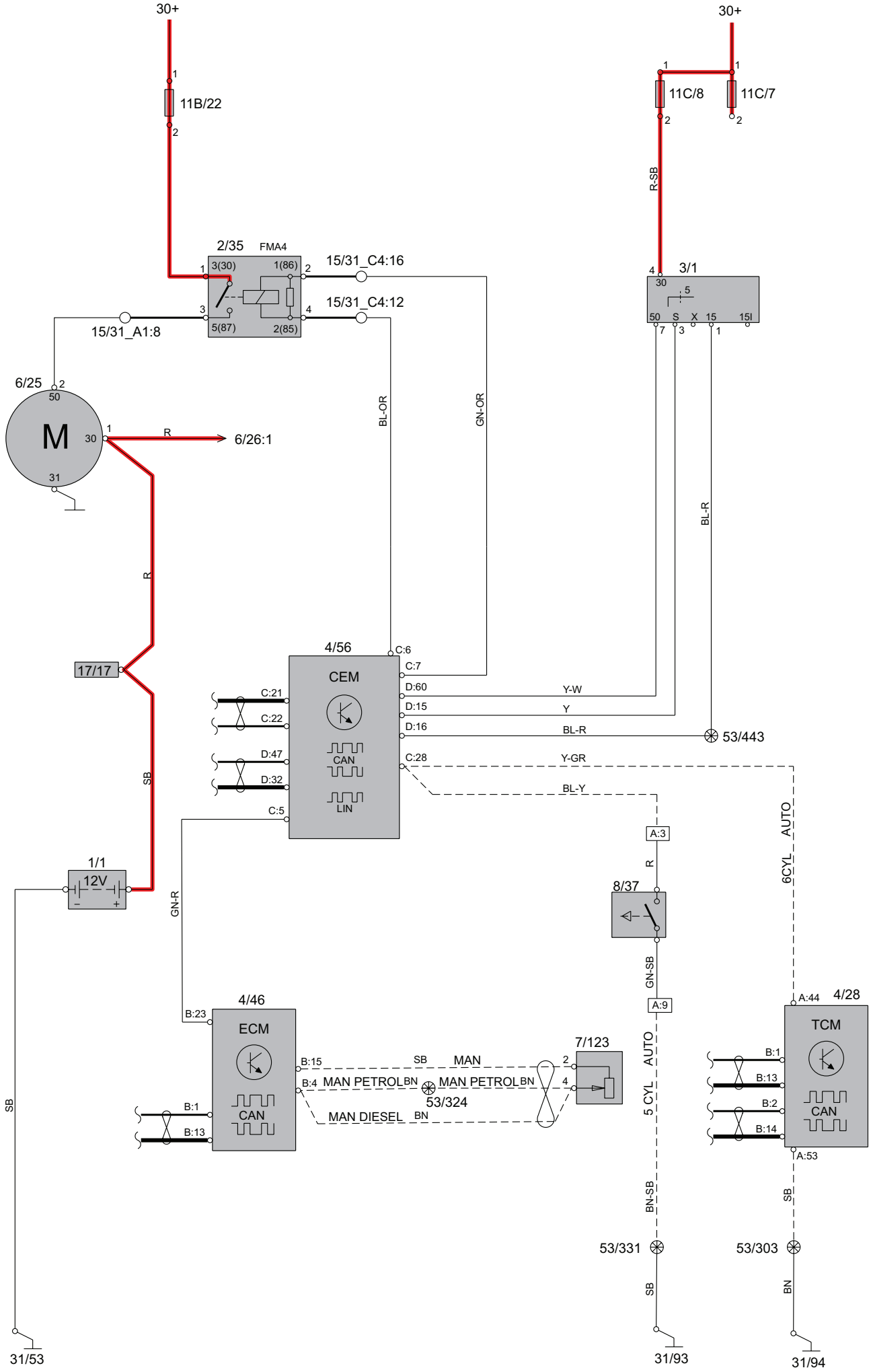
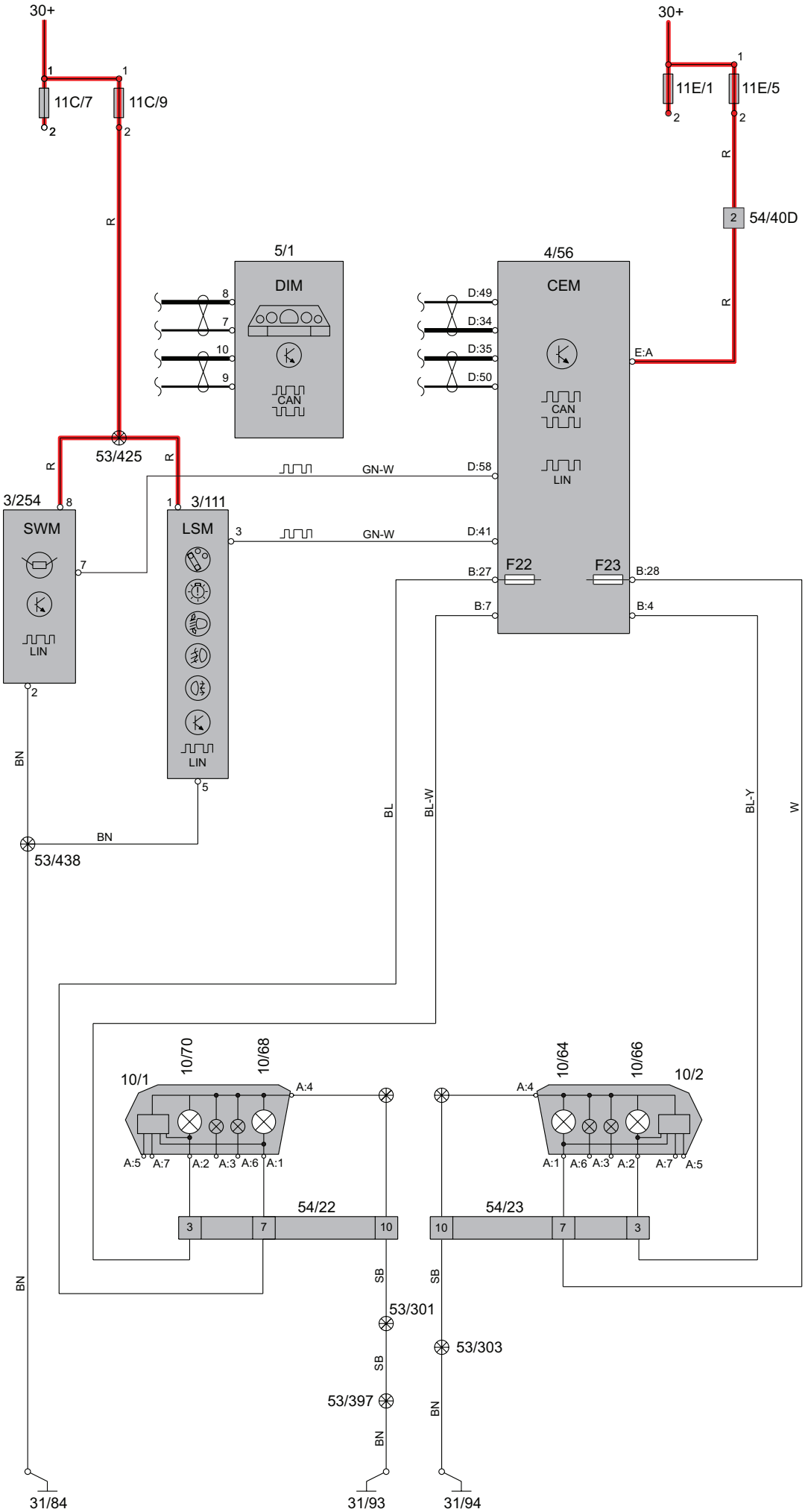
15/31_C4:1
R
1/1
12V
SB
SB
17/17
31/53

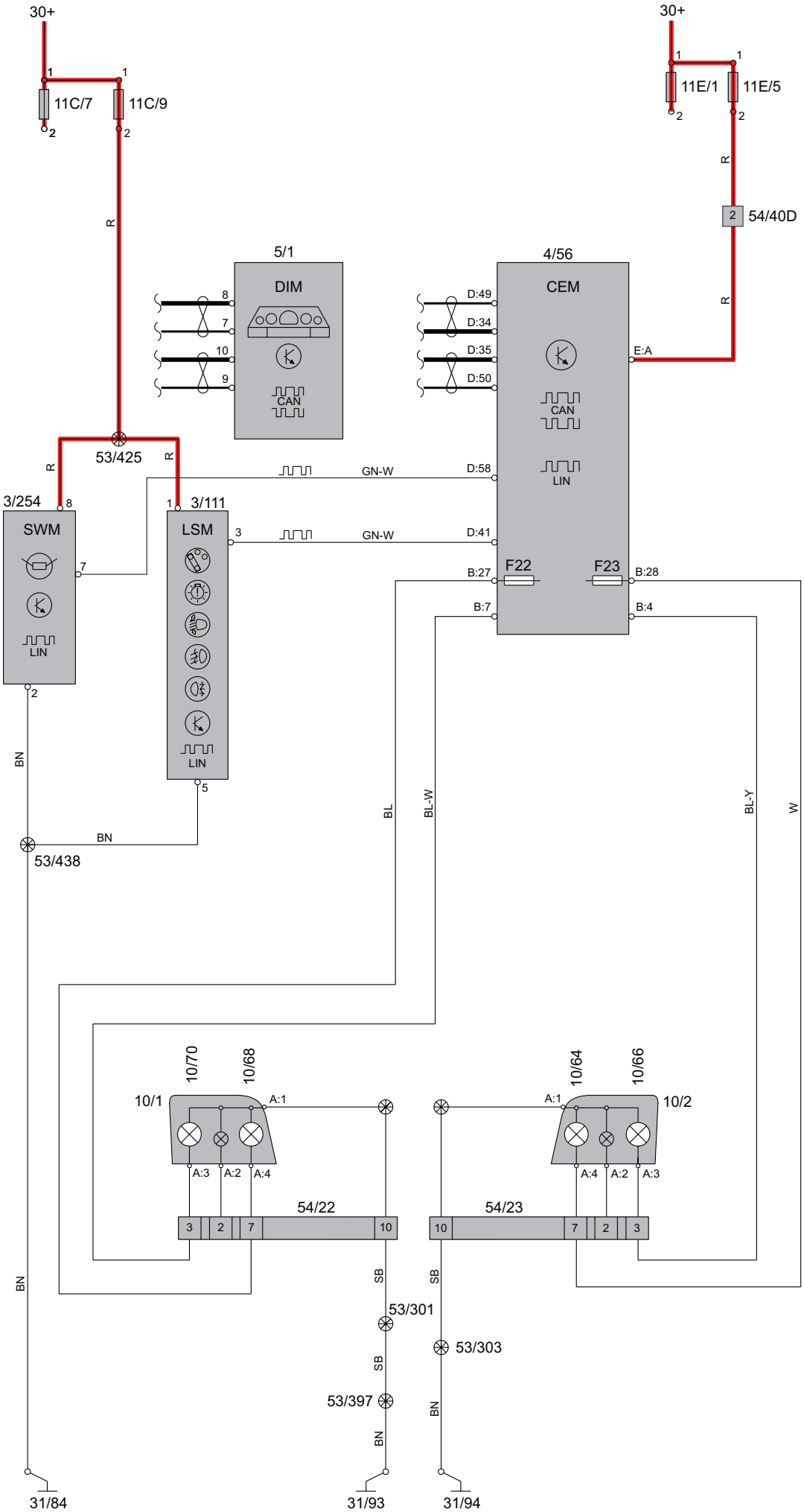
Starting system



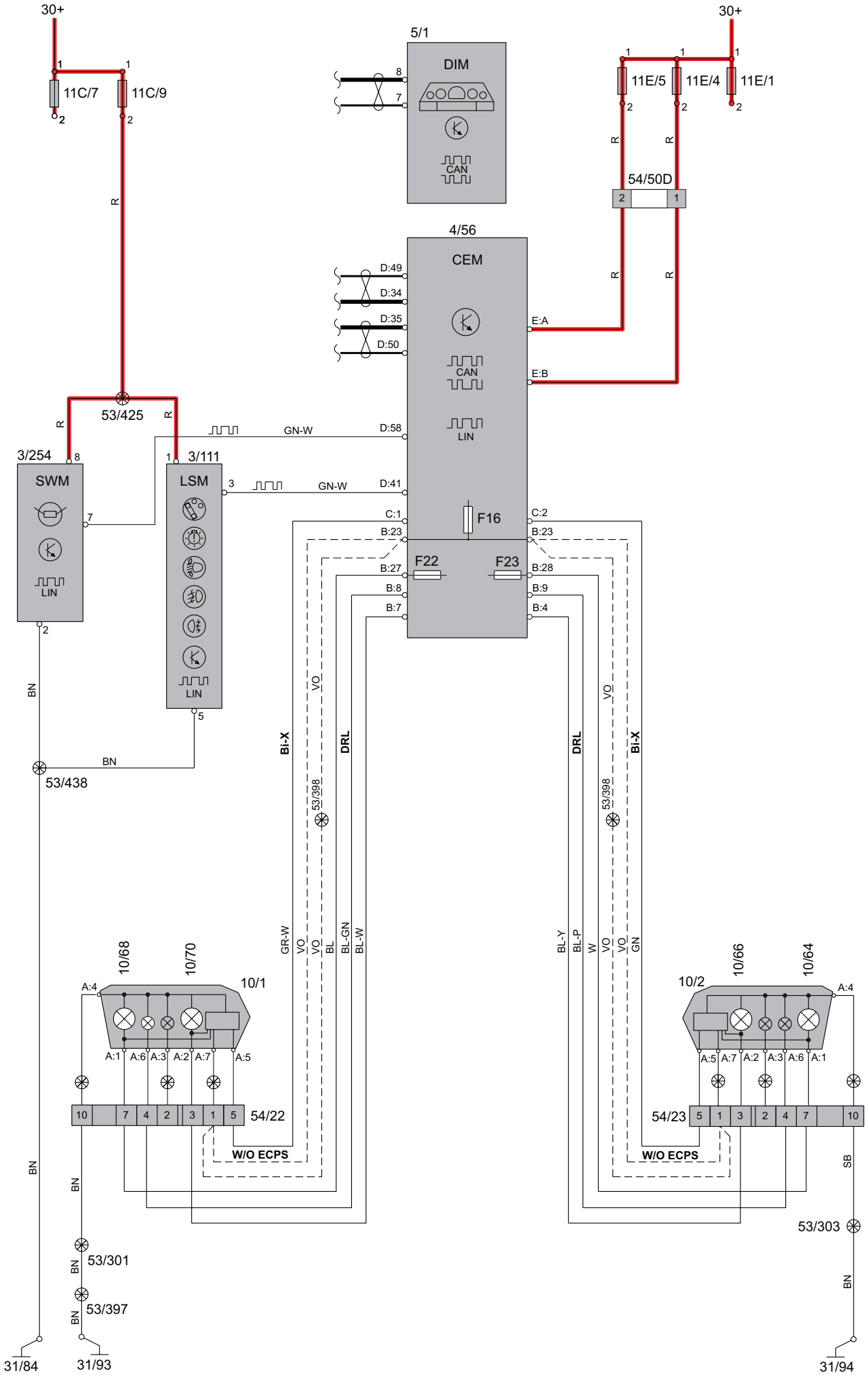
Group 35 Lighting
High and low beam S60



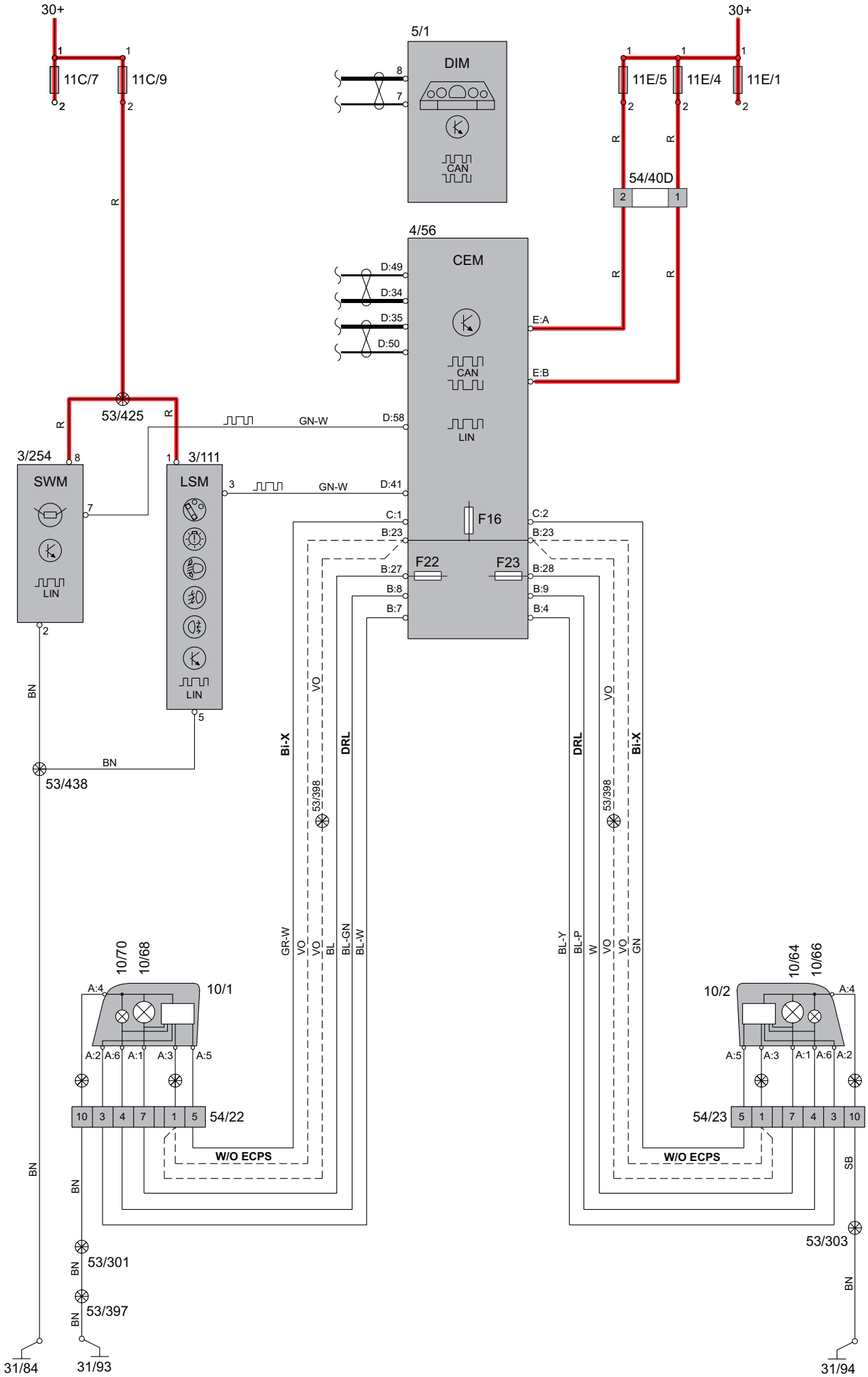
Group 35 Lighting
High and low beam S80



Group 35 Lighting
High and low beam (Bi-Xenon) & Daytime running lights S60



High and low beam (Bi-Xenon) & Daytime running lights S80



Group 35 Lighting
Fog lights